SEX AND AGE CLASSIFICATION SURVEYS OF PEARY CARIBOU ON BANKS ISLAND, 1982-1998: A REVIEW

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SEX AND AGE CLASSIFICATION SURVEYS OF PEARY CARIBOU ON BANKS ISLAND, 1982-1998: A REVIEW

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ABSTRACT

Sex and age classification surveys of Peary caribou on Banks Island were conducted sporadically between 1982 and 1991. Since then surveys have been conducted annually. Surveys were partitioned into 5 different circannual periods of Banks Island caribou. Between 1982 and 1998 Peary caribou were classified for 7 calving (May and June), 7 summer (July and August), 7 winter (11 November through March), 6 fall/rut (September through 10 November), and 4 pre-calving (April) periods. We calculated the ratios of calves and yearlings per 100 adult ($\geq$2 year-old) females, and the percentages of calves and yearlings in the survey sample, for each of the 31 surveys. There were significant ($P<0.05$) year effects on calf per 100 adult female ratios. Multiple comparison tests indicated that in 1995 and 1996 ratios were significantly higher than in 1993 and 1994. We determined estimates of calf production for 10 years, range 23.3 (1994) to 75.6 (1982) calves per 100 adult females. In 7 of the 10 years production was >50.0 calves per 100 adult females. We determined overwinter survival of calves by dividing the best estimate of calf production in a given year by the best estimate of the number of yearlings recorded per 100 adult females in the following year. Overwinter survival of calves was determined for 6 years, range 23 (1991-92) to 86% (1993-94). In 4 of the 6 years overwinter survival of calves was >50%. The decline in numbers of non-calf caribou from 709 in 1994 to 425 in 1998 has occurred in the face of high production and overwinter survival of calves.

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INTRODUCTION

Between 1982 and 1998 Peary caribou (*Rangifer tarandus pearyi*) numbers on Banks Island decreased from *ca.* 7,000 to *ca.* 425 non-calves (Nagy *et al.*, 1996; Nagy and Forsythe, 1996; J. Nagy and M. Branigan, unpubl. data). Population surveys were conducted during summer after calving, therefore non-calves are defined as all animals that are not young of the year (i.e. animals > 12 months-old). Unfortunately, sex and age classification surveys (composition surveys) to monitor calf production and recruitment were conducted sporadically between 1982 and 1991, and were often conducted opportunistically with other ground-based field operations during months with snow cover when travel was easiest. By 1991 the majority of the decline in caribou numbers appeared to have occurred. The caribou population was estimated at *ca.* 900 non-calves in 1991 (Nagy *et al.*, 1996), and an annual quota of 30 caribou, male only, was implemented for the community of Sachs Harbour. In response to local concerns about low caribou numbers, aerial classification surveys to assess calf production and recruitment were initiated in summer 1992 and another population survey was conducted. The 1992 population survey estimated *ca.* 1,005 non-calves (Nagy *et al.*, 1996). The annual quota was re-evaluated at the request of the Sachs Harbour Hunters and Trappers Committee and increased to 36 caribou, male only, where it currently remains. This allowed for one caribou per household. During summer 1993 a large scale range study was initiated which integrated the annual summer aerial classifications surveys of caribou with ground-based classification surveys of caribou. Ground-based surveys were from 6-21 days in length and conducted 6 times during the year, June, July, August, November, February, and April. The range study ran from June 1993 to July 1998 and provided caribou classification data in addition to the annual July aerial classification survey. This report compiles, reviews, and assesses all data from sex and age classification surveys of Peary caribou conducted on Banks Island from 1982-1998. We present the best estimates of yearly Peary caribou calf production for the Banks Island population, and where adequate data are available we present the best estimates of overwinter survival of calves. We compare our findings with what similar data are available from studies of Peary caribou populations and Svalbard reindeer.

METHODS

Types of Classification Surveys

Five different ground-based classification surveys were conducted from November 1982 to November 1991 (Table 1). One to 4-day round trips were conducted by Department of Resources, Wildlife & Economic Development (DREWD) personnel and local guides on snowmachines from Sachs Harbour into the traditional wintering grounds (Fig. 1). When caribou were located, observers positioned themselves so that caribou could be observed either with binoculars (7x24) or a spotting scope (15-45x). Caribou were classified into calves, yearlings, 2 year-old and older females (adults), and 2 year-old and older males (adults). Whenever possible yearlings and calves were classified as male or female following Bergerud (1961).

In June and August, 1992 and May and June, 1993 classification surveys were flown with a Bell 206B helicopter. Caribou were spotted from the air and the survey crew, generally an observer and a recorder, was positioned by the helicopter. To minimize disturbance and get the best view of animals possible, the helicopter landed 0.5-1.5 km downwind and preferably behind a ridge or hill so as not to be within the animals' direct line of sight. The survey crew then walked to a position where the animals could be classified into the 4 previously described sex and age categories with a spotting scope. In all but the June 1992 survey, an initial reconnaissance flight, of 4 to 8h by fixed-wing aircraft, had located concentrations of caribou prior to the survey.

In June 1993 we began a range study on Banks Island. Field camps were established in the and adjacent to the wintering grounds (Fig. 1). As part of the range study, field trips of 6-21 days in length were conducted 6 times a year: mid-June, mid-July, mid-August, early November, mid-February, and late-April. The June and July field trips were conducted with the assistance of a Bell 206B or 206L helicopter. The August field trip was conducted with the assistance of 4x4 ATV's, and the November, February, and April field trips were conducted with the assistance of snowmachines. We tried to classify all caribou observed into our 4 sex and age categories during travel associated with these and other field trips. During the July field trip we relocated the helicopter from the southern field camps to a field camp in the north by Nangmagvik Lake (74° 6'N x 120° 0'W). This camp is adjacent to the summering grounds of Banks Island Peary caribou in the northwest corner of the island (Fig. 1). A 3-6 h spaghetti transect flight was conducted with the helicopter over the summering grounds. When caribou were spotted from the air the survey crew, generally an observer and a recorder, was positioned by the helicopter. The survey crew attempted to classify all caribou as described previously into our 4 sex and age categories. In 1994 and 1998, aerial reconnaissance by fixed-wing aircraft involved in the Banks Island population survey had identified areas of local caribou concentration in the summering grounds prior to the classification survey. Therefore, spaghetti transect flights in 1994 and 1998 were generally of shorter duration. Additional classification data were provided by local hunters. During the 32 field trips conducted in association with the 1993-1998 range study 1159 caribou were classified.

Partitioning Classification Data

Because the range study work provided classification data during 6 different months and the previous classification surveys had been conducted in various months, we partitioned the survey data into distinct periods associated with the annual cycle of Banks Island caribou (following the Porcupine Caribou

Technical Committee, 1993). We defined 5 circannual periods (following Urquhart, 1973; R. Kuptana, pers. comm.; A. Carpenter, pers. comm; J. Lucas, pers. comm.) calving (May and June), summer (July and August), fall/rut (September through 10 November), winter (11 November through March), and pre-calving (April). Since 1982, surveys were conducted during similar time periods: i) calving 11-21 June and once 18-20 May, ii) summer 12-31 July and 13-27 August, iii) fall/rut 6-21 September, 9-30 October, and 2-9 November, iv) winter 13 November-12 December, 6-26 February, and 6-30 March, and v) pre-calving 6-30 April.

For each circannual period from each year we calculated the following: i) the ratio of calves per 100 adult females, ii) the ratio of yearlings per 100 adult females, iii) the percentage of calves in the total classified, and iv) the percentage of yearlings in the total classified. Because of generally small sample sizes, all groups, even those with unclassified adults, were included in the calculations. When unclassified adults were included, we calculated the maximum range of the ratios by determining the ratio when all unclassified adults were treated as males, and conversely when all unclassified adults were treated as females. Statistical analyses of the ratios used the mid-range value.

Statistical Analyses

We used a Kruskal-Wallis test on: i) calves:100 adult females, ii) yearlings:100 adult females, iii) the percent calves of classified animals, and iv) percent yearlings of classified animals to determine if there were any significant ($p<0.05$) year or circannual period effects on any of these categories. When Kruskal-Wallis tests indicated significant ($P<0.05$) results, multiple comparisons (Gibbons, 1985) were conducted on the mean class ranks to identify significantly different subsets of years. We used an overall significance level of 0.25 for multiple comparisons.

Best Estimates of Calf Production

We discarded all circannual classification data where fewer than 20 caribou were classified. From the remaining data we determined our best estimate of calf production as the number of calves per 100 adult females determined from the survey(s) conducted in July and August of the year. Where survey data were unavailable during July and August we used data from surveys conducted as soon after August as possible. We realize that these estimates do not address neonatal mortality and those estimates derived from November data may underestimate productivity more than those derived from only July data, but these were the best data available. The survey data used to best estimate for calf productivity for those years follows: i) 1982 - November 1982, ii) 1990 - October 1990, iii) 1991 - September and November 1991, iv) 1992 - August 1992, v) 1993 October and November 1993, vi) 1994 - July and August 1994, vii) 1995 - July and August 1995, viii) 1996 - July 1996, ix) 1997 - July and August 1997, and x) 1998 - July 1998. For 1996 and 1998 there were no August survey data available.

Best Estimates of Overwinter Survival

We discarded all circannual classification data where fewer than 20 caribou were classified. The best estimate of calf overwinter survival was determined by dividing the best estimate of calf production in a given year by the best estimate of the number of yearlings recorded per 100 adult females in the following year. The best estimates of the number of yearlings per 100 adult females were those data available from May - July, when classification of yearlings is easiest. The survey data used to best estimate the number of yearlings per 100 adult females follows: i) 1992 - June 1992, ii) 1993 - May and June 1993, iii) 1994 - July 1994, iv) 1996 - July 1996, v) 1997 - July 1997, and vi) 1998 - July 1998.

RESULTS

Classification Data

Between 1982 and 1998 Peary caribou were classified for 7 calving, summer, and winter periods, 6 fall/rut periods, and 4 pre-calving periods (Appendix 1). There were significant ($P<0.05$) year effects on the ratios of calves per 100 adult females. The ratios of calves per 100 adult females was similar in 1995 and 1996 and significantly higher than those ratios of calves per 100 adult females found in 1993 and 1994. The ratios in 1993 and 1994 were similar. All other paired comparisons of the ratios of calves per 100 adult females were not significant (Figure 2). Median values for the ratio of calves per 100 adult females lumped across circannual periods ranged from 22.0 in 1994 to 72.3 in 1982 (Table 2, Appendix 1). There were no significant ($P>0.05$) year or circannual effects on percent calves, yearlings per 100 adult females, or percent yearlings.

Calf Production

We were able to estimate calf production for 10 years (Table 3). Calf production ranged from a high in 1982 of 75.6 to a low in 1994 of 23.3 calves per 100 adult females. In 7 of the 10 years production was >50.0 calves per 100 adult females. Those exceptional years of low calf production were 1993, 1994, and 1996.

Overwinter Survival

We were able to estimate the number of yearlings per 100 adult females for 6 years. Thus we were able to estimate overwinter survival of calves for: 1991-92, 1992-93, 1993-94, 1995-96, 1996-97, and 1997-98 (Table 3). Overwinter survival ranged from a high during 1993-94 of 86% to a low during 1991-92 of 23%. In 4 of the 6 years overwinter survival was >50%. Those exceptional years with low overwinter survival of calves were 1991-92 and 1996-97.

DISCUSSION

Types of Classification Surveys

We acknowledge that with multi-day ground-based classification surveys there exists a potential for double counting caribou. However, when groups were located a precise location was determined by the use of a global positioning system (GPS), and we believe that the number of double counted individuals is low and has little if any affect on the ratio calculations. Local hunters provide locations of observed caribou on 1:250,000 maps so that the probability of double counted groups can be assessed. We determined that two groups of mixed sex and age caribou (numbering 5 and 6 in total) were likely observed and reported by two different hunters. One group of 2 male caribou was seen and reported twice by the same hunters. These 3 groups were only included once in our analysis.

Calf Production

The population of non-calf Peary caribou on Banks Island was estimated to be 6,970 in 1982, 4,931 in 1985, 4,251 in 1987, 2,641 in 1989, and 897 in 1991 (Nagy *et al.*, 1996). Prior to the establishment of a quota of 150 animals (any sex) in 1990, the annual subsistence harvest during the 1970's and 1980's was estimated at 300-450 animals, predominantly females, however the female proportion was dropping quickly by the late 1980's (Nagy *et al.*, 1996; J. Nagy and N. Larter, unpubl. data). It was not until after the 1991 survey to estimate population size that aerial classification surveys were initiated in order to assess productivity and overwinter survival. In retrospect, given the rate of decline in population estimates and the level of subsistence harvest, this action occurred at least 4 years too late.

Because of the lack of long-term data, especially from the 1980's when the population was much larger (*ca.* 2,500-7,000 non-calves), there is little baseline data to assess current calf production and its annual variability as determined from a small population. The comparable data that are available for Peary caribou and Svalbard reindeer show large annual fluctuations (Table 4). Tyler (1987) found that annual variation in calf percentages and ratios was correlated to annual variation in female pregnancy rates. There were distinct "good" and "bad" years for female pregnancy. Thomas (1982) found similar annual fluctuations in fecundity of Peary caribou. Large annual fluctuations in fecundity of both Peary caribou and Svalbard reindeer occurred independent of population density, suggesting that weather likely affected the rates, and severe winters in particular (Thomas, 1982; Tyler, 1987). Severe winter weather undoubtably has some effect on delaying certain cohorts from reaching a certain weight and/or size that may be necessary in order to conceive.

Classification survey data from Banks Island since 1993 indicates that calf production was significantly higher in 1995 and 1996 than in 1993 and 1994 (Fig. 2). Production continued high in 1996 and 1997, but the difference was borderline significance (0.05<P<0.10). Even though these data are from limited numbers of caribou (Appendix 1), when put in the context of the estimated population they represent a more substantial percentage. Whether or not these data are indicative of fluctuations in fecundity resulting from the effects bad or favourable winter weather is debatable. The 1997-98 winter was one of the mildest in recent years (N. Larter and J. Nagy, unpubl. data; R. Kuptana, pers. comm.) and calf production the following year was at a level (74.3 calves per 100 adult females) that had not been recorded since 1982 (75.6 calves per 100 adult females). 1995-96 and 1996-97 winters had both been relatively less severe than 1993-94 and 1994-95 (N. Larter and J. Nagy, unpubl. data; R. Kuptana, pers. comm.), however there is no clear correlation with calf production. During winter 1993-94 there was severe icing on parts of the traditional caribou wintering range (Larter and Nagy, 1994), and summer 1994 calf production was the lowest recorded, 23.3 calves per 100 adult females. Sex and age structure of a small population may also have been a factor in the variability in calf production we have documented.

High harvest of predominantly females from a declining caribou population during the late 1980's likely resulted in a population skewed toward younger animals, and quite possibly predominantly males. Data on the age of harvested males from 1990-1998 indicates a harvest skewed to younger males (N. Larter and J. Nagy, unpubl. data). Such a population in the early 1990's may have had abnormally low productivity because most animals had not reached the size for sexual maturity. During the severe winter 1990-1991 an overwinter die-off of at least 60 caribou was recorded (Nagy *et al.*, 1996). During winter 1993-1994 there was severe icing on parts of the traditional caribou wintering grounds but no die-off was recorded and calves were not in poor condition during February (Larter and Nagy, 1994). The generally higher calf production from 1995 through 1998 may have resulted from a response by a population that was getting an increasingly more normal population sex and age structure (ie less skewed towards young animals) in combination with mild winters, rather than solely a response to changes in winter severity (N. Larter and J. Nagy, unpubl. data; R. Kuptana, pers. comm.). The high levels of calf production from 1998 are similar to those in 1982 and may be representative of more normal levels for Banks Island caribou.

Calf mortality occurs throughout the year and it is likely that presenting the median calf per 100 adult female ratio lumped across circannual periods may mask annual variation in calf mortality and affect the results of the analysis. For Svalbard reindeer, Tyler (1987) found that the majority of calf mortality occurred in late winter regardless of whether it was a "good" or "bad" year for female fecundity. Using percent calves in the population post-calving (i.e., summer period) provides an alternate minimum estimate of fecundity. Because a number of population surveys have been conducted on many of the Arctic islands there is a larger historical data set on percent calves in the population. As with the ratio data there are large annual fluctuations in percent calves, both within islands (Fischer and Duncan, 1976; Tyler, 1987; J. Nagy and N. Larter, unpubl. data) and between islands (Tener, 1963; Fischer and Duncan, 1976; Miller, 1992). Percent calves during summer from this study (12.5-32.1) are similar to those found elsewhere (Table 5). Median percent calves determined from surveys in 1993 and 1994 (12.5 and 9.8, respectively) were lower than those found in subsequent years 1995-1998 (30.4, 31.4, 17.5 and 22.9, respectively)(Table 2). A finding similar to that using the median annual ratio of calves per 100 adult females data (Table 2). The percent calves determined from the 1994 population survey of Banks Island is the second lowest recorded of 7 surveys conducted between 1982 and 1994 and the 1994 best estimate of calf production was the lowest of the 10 years that best estimates could be derived (Table 3). These data all point to low fecundity in 1994.

Overwinter Survival

Our best estimates of overwinter survival of calves ranged from 23 to 86%. The lowest overwinter survival of calves occurred during the 1991-92 winter; the winter following 1990-91 when a recorded die-off of at least 60 caribou had occurred. This may be indicative of cohort differences in survival and age at first reproduction (Albon, *et al.*, 1987) resulting from the combination of previous year's unfavourable weather and female biased harvest. The highest overwinter survival occurred during winter 1993-94 when fall icing conditions were documented on a substantial proportion of the caribou winter range (Larter and

Nagy, 1994). However, a limited number of calves that were collected during November 1993 and February 1994 were deemed to be in no poorer condition than was commonly seen at this time of year by local residents of Sachs Harbour and to be of similar condition to caribou from elsewhere based upon measures of body condition indices (Larter and Nagy, 1996).

We feel that by using classifications of yearlings in surveys conducted during May and June that misclassification is minimal. There is the increased potential for misclassifying yearlings during summer. However if there is an increase in misclassification, that bias has been kept relatively constant throughout this study because the last 5 estimates of yearlings per 100 adult females and percent yearlings were based upon classifications by the same individual (NL). Data on overwinter survival of calves are lacking. Only Tener (1963) has previously reported data on yearlings. He found percent yearlings ranging from 0.0-8.1 (median 4.3) for Peary caribou on the Queen Elizabeth Islands in 1961. The median percent yearlings was approximately one-fifth of the median percent calves reported for that year. Assuming similar productivity in 1961 and no major loss of adults an overwinter survival of 20% could have occurred, but these assumptions may well be invalid. His estimate is lower than all of ours. Our estimates could be deemed high because population data indicate a decrease in non-calf caribou on Banks Island from 709 to 425 from 1994 to 1998. During this same period calf production has been high and the reported subsistence harvest has been less than the annual quota that has been allocated. However, wolf predation of females and young animals in the calving grounds during summer and the fall migration from the north to the south, has the potential to decrease the caribou population even in the face of the high overwinter calf survival estimates we report.

Other studies on caribou and reindeer populations have shown that calf mortality is one of the main factors affecting population growth (Bergerud, 1971; Parker, 1972; Skogland, 1985; Tyler, 1987). A more accurate estimate of overwinter survival could be determined by following radio-collared females to determine their calf production and survival. However, the potential for this method on Banks Island will be constrained by small sample size, the likelihood of large annual variation, the cost of deployment, and the costs and logistical problems associated with getting visual observations of these animals during high Arctic winters. Nonetheless, accurate estimates of overwinter survival remain a key population parameter that continues to prove extremely elusive.

RECOMMENDATIONS

1) Early July classification surveys cannot detect neonatal losses, but likely provide the best estimate of calf productivity. Although May-June classification surveys likely provide the lowest potential for misclassifying yearlings, early July surveys likely provide adequate data. Therefore since the costs involved will limit classification surveys to one per year it should be conducted in early July so that we can get the best estimate of calf productivity and of overwinter survival of calves using survey methodology.

2) Estimates of overwinter survival of calves is more affected by reduced sample size than estimates of calf production. It is essential that classification surveys strive to get the largest sample sizes possible. Therefore, a fixed-wing reconnaissance flight to determine localized caribou concentrations should be conducted whenever possible prior to the helicopter being dispatched to classify caribou.

3) Large annual variation in survival, limited sample sizes, and the costs associated with deploying and tracking precludes the use of conventional radio-collars on animals on Banks Island unless satellite radio-collars are also deployed. The high cost of a satellite radio-collaring program may limit its feasibility, however it has the potential to provide accurate estimates of calf production and overwinter survival of calves.

4) Annual aerial classification surveys must be continued even though they are no longer associated with and subsidized by range study field work.

5) Continue to collect classification data from all caribou observed during all field work conducted on Banks Island.

6) Continue to encourage local residents and workers for other agencies to provide DRWED with caribou numbers, locations, and classifications whenever possible. And report any findings of dead animals.

7) Continue to work with other biologists to investigate other means to best estimate calf productivity and subsequent overwinter survival.

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PERSONAL COMMUNICATIONS

Andy Carpenter, Sachs Harbour resident hunter and trapper.

John Lucas Sr., Sachs Harbour resident hunter and trapper.

Roger Kuptana, Sachs Harbour resident hunter and trapper.

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Figure 1. Traditional critical Peary caribou wintering, summering, and fall ranges (based upon Urquhart, 1973).

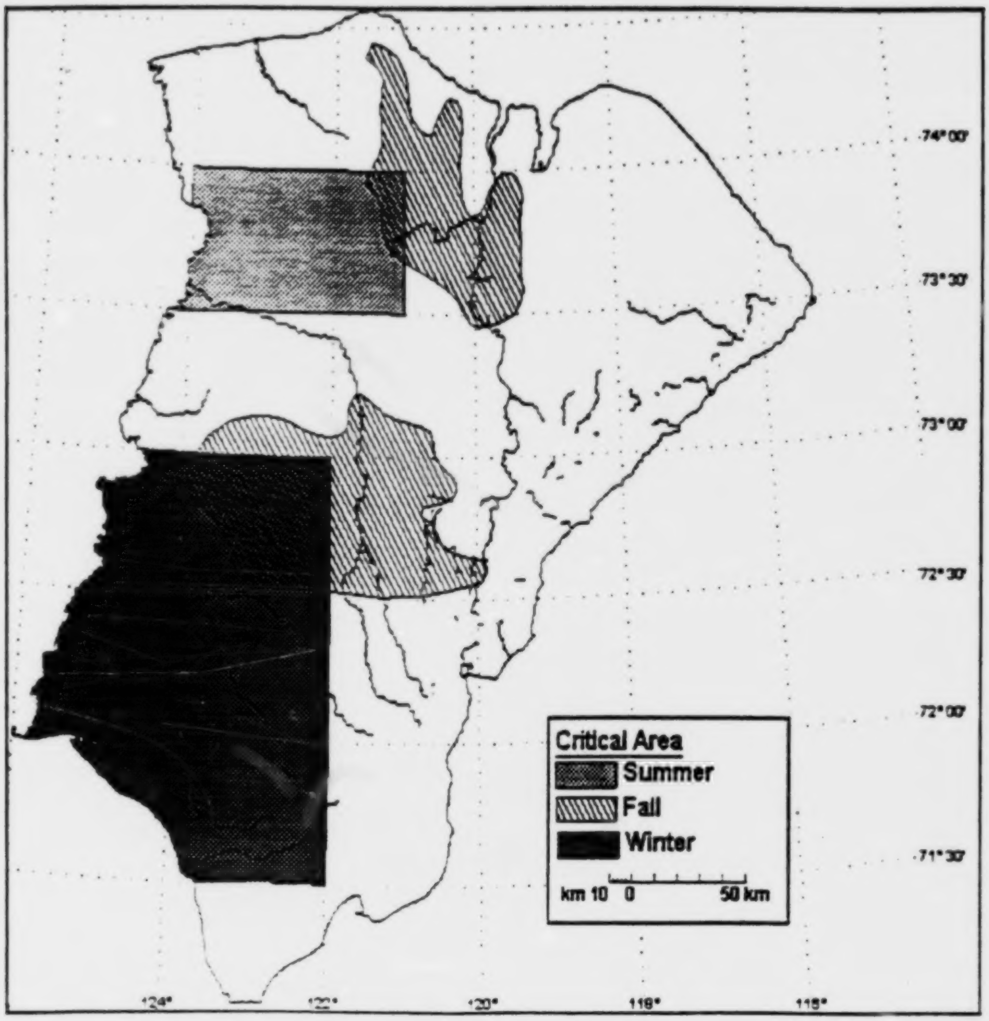

Figure 2. The ratios of calves per 100 adult females from all classification surveys during each circannual period from 1982 to 1998 on Banks Island. See text for time of year used to define each circannual period.

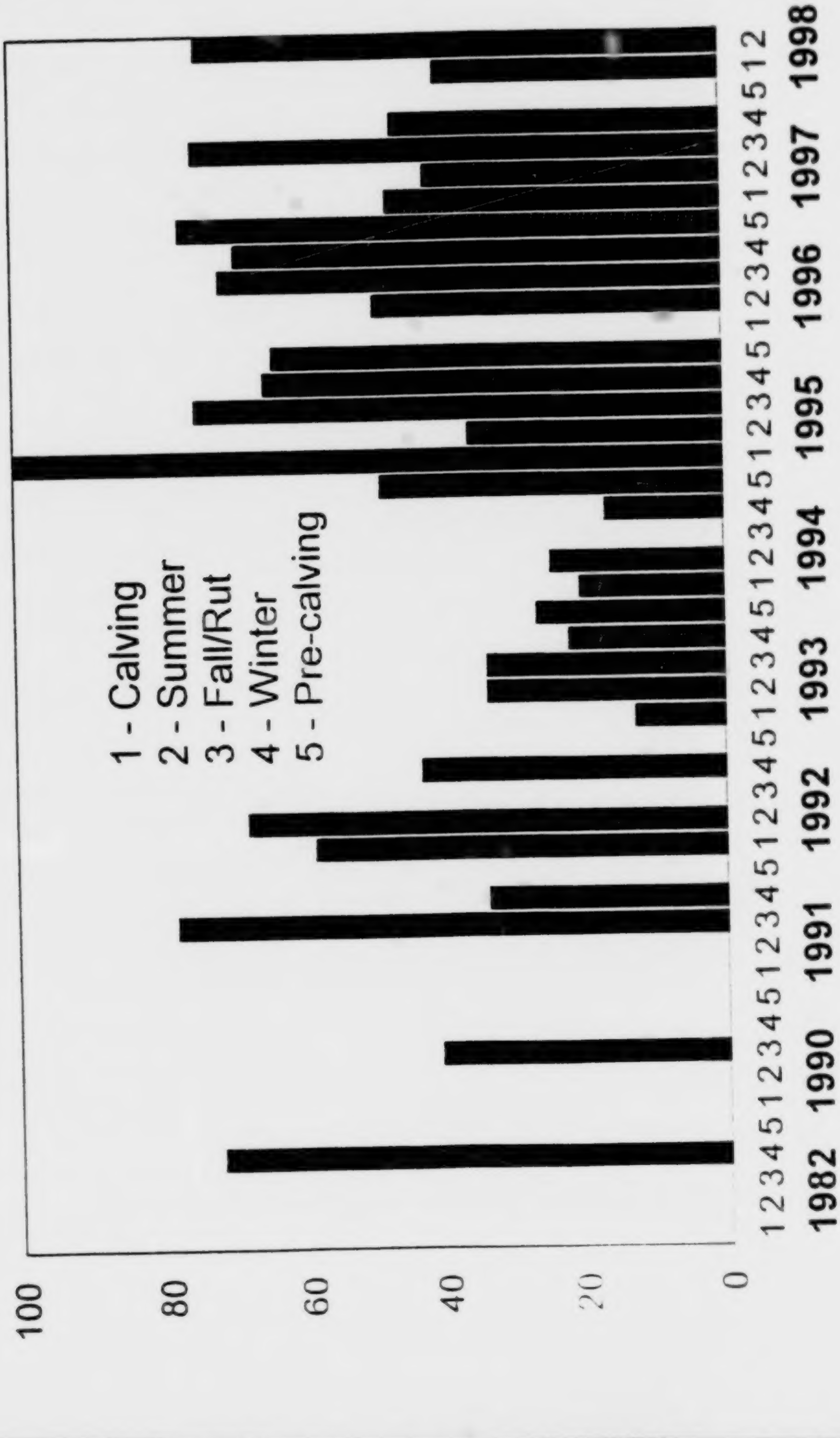

Table 1. The dates of classification surveys, number of animals classified, and method of classification for surveys conducted prior to summer 1993. The values in parentheses represent the number of unclassified adults.

Date	Number Animals Classified	Method (Ground/Air)
November, 1982	113 (4)	Ground
November, 1983	161[1]	Ground
October, 1990	104 (33)	Ground
September, 1991	38 (12)	Ground
November, 1991	33	Ground
June, 1992	60	Air
August, 1992	191	Air
March, 1993	18	Ground
May, 1993	35	Air
June, 1993	79	Air

[1] Raw data unavailable, 48 groups of unknown classification totalling 161 animals.

Table 2. The median ratios of the number of calves per 100 adult females (ca:100fem), and percent calves in the survey sample for all 10 years when surveys were conducted on Banks Island. n = the number of circannual periods in which classification surveys were conducted in that year, out of a possible 5. N = the total number of animals classified.

Year	1982	1990	1991	1992	1993	1994	1995	1996	1997	1998
n	1	1	2	3	5	4	5	4	4	2
N	113	104	71	269	346	176	144	166	238	184
ca:100fem	72.3	40.4	55.8	58.6	26.2	22.0	65.4	70.3	46.8	57.2
% calves	27.4	19.2	18.2	28.3	12.5	9.8	30.4	31.4	17.5	22.9

Table 3. Classification data that were used to best estimate the overwinter survival (%) of Peary caribou calves on Banks Island from 1991 to 1998: the survey month(s) classification data were collected, the actual number of calves, yearlings (yrlngs) and 2+ year old females classified and their accompanying ratios/100 2+ year old females, and the best estimate of overwinter survival.

		Calves		Yearlings Following Year			
Year	Survey Month	# calves/ # 2+year females	calves/100 2+year females	Survey Month	# yrlngs/ # 2+year females	yrlngs/100 2+year females	Overwinter Survival (%)
1990-1	Oct 91	20/38	52.6				
1991-2	Sep-Nov 91	13/22	59.1	Jun 92	4/29	13.8	23
1992-3	Aug 92	58/85	68.2	May-Jun 93	20/47	42.6	62
1993-4	Oct-Nov 93	18/43	41.9	Jul 94	9/25	36.0	86
1994-5	Jul-Aug 94	7/30	23.3				
1995-6	Jul-Aug 95	8/15	53.3	Jul 96	4/12	33.3	62
1996-7	Jul 96	8/12	66.7	Jul 97	4/15	26.7	40
1997-8	Jul-Aug 97	10/23	43.5	Jul 98	16/70	22.9	53
1998-9	Jul 98	52/70	74.3				

Table 4. Comparative ratios of calves per 100 adult females determined from summer (July and August) classification surveys of Peary caribou and Svalbard reindeer.

Population/Location	Year(s)	Ratio	Reference
Svalbard reindeer	1979-84	9.0-73.3	Tyler, 1987
Bathurst Is. Archipelago caribou	1990	44.4-88.2	Miller, 1992
Banks Island caribou	1990-98	33.3-74.3	This study
Melville Island caribou	1998	80.0	N. Larter & J. Nagy, unpubl. data

Table 5. Comparative percent calves determined from summer (July and August) classification surveys in populations of Peary caribou and Svalbard reindeer.

Population/Location	Year(s)	% Calves	Reference
Svalbard reindeer	1979-84	3.7-27.3	Tyler, 1987
Banks Island caribou	1990-98	12.5-32.1	This study
Banks Island caribou	1994	7.5	Nagy and Larter, unpubl.data
Banks Island caribou	1992	30.0	Nagy and Larter, unpubl.data
Banks Island caribou	1991	5.4	Fraser *et al.*, 1992
Banks Island caribou	1989	25.5	McLean and Fraser, 1991
Banks Island caribou	1987	22.6	McLean, 1991
Banks Island caribou	1985	16.6	McLean *et al.*, 1986
Banks Island caribou	1982	25.0	Latour, 1985
Banks Island caribou	1971-72	17.3-27.9	Urquhart, 1973
North Banks Island caribou	1970	19.1	Kevan, 1974
Melville Island caribou	1998	26.0	N. Larter and J. Nagy, unpubl. data
Bathurst Is. Archipelago caribou	1990	15.7-19.6	Miller, 1992
Parry Islands caribou	1975	17.0-35.0	Fischer and Duncan, 1976
Parry Islands caribou	1974	0.0-28.0	Fischer and Duncan, 1976
Queen Elizabeth Is. caribou	1961	10.8-29.7	Tener, 1963

APPENDIX

Appendix 1. The ratios of calves (Ca) and yearlings (Yr) per 100 adult females (Cow), the percent calves and yearlings, the number of groups, animals, and known males classified during different life cycle periods for 1982, and 1990 to 1998. A range in ratios is given where unknown adults were part of the classification. The midrange was used for the statistical analyses.

Period	Ca:100 Cow	Yr:100 Cow	% Ca	% Yr	# grps	# anim	# male
Winter 1982-83	68.9-75.6	26.7-29.3	27.4	10.6	28	113	25
Rut 1990	28.2-52.6	2.8-5.3	19.2	1.9	15	104	11
Rut 1991	42.1-114.3	10.5-28.6	21.1	5.3	8	38	9
Winter 1991-92	33.3	0.0	15.2	0.0	8	33	13
Calving 1992	58.6	13.8	28.3	6.7	21	60	10
Summer 1992	68.2	1.2	30.4	0.5	54	191	47
Winter 1992-93	42.9	0.0	16.7	0.0	7	18	8
Calving 1993	11.7-13.2	36.7-41.5	6.1	19.3	44	114	25
Summer 1993	33.3	0.0	12.5	0.0	5	16	8
Rut 1993	33.3	8.3	20.0	5.0	15	60	9
Winter 1993-94	21.1-22.1	22.5-23.5	10.8	11.5	58	139	37
Pre-Calving '94	25.0-27.3	16.7-18.2	17.6	11.8	4	17	0
Calving 1994	20.0	120.0	4.3	26.1	7	23	11
Summer 1994	24.0	36.0	12.8	19.1	9	47	7
Winter 1994-95	8.6-24.0	7.1-20.0	6.8	5.7	23	88	7
Pre-Calving '95	40.0-57.1	0.0	22.2	0.0	7	18	3
Calving 1995	100.0	0.0	50.0	0.0	1	2	0
Summer 1995	24.2-47.1	12.1-23.5	15.4	7.7	13	52	7
Rut 1995	75.0	0.0	14.3	0.0	5	21	4
Winter 1995-96	62.5-68.2	4.2-4.5	32.6	2.2	9	46	8
Pre-Calving '96	58.3-70.0	0.0	30.4	0.0	4	23	4
Summer 1996	32.0-66.7	16.0-33.3	17.0	8.5	14	47	13
Rut 1996	71.4	0.0	34.5	0.0	7	29	5

Period	Ca:100 Cow	Yr:100 Cow	% Ca	% Yr	# grps	# anim	# male
Winter 1996-97	69.2	23.1	30.5	10.2	19	59	9
Pre-Calving '97	76.9	15.4	32.3	6.5	8	31	6
Calving 1997	44.4-50.0	16.7-18.8	21.6	8.1	11	37	8
Summer 1997	40.0-43.5	16.0-17.4	13.3	5.3	18	75	33
Rut 1997	75.0	0.0	33.3	0.0	2	9	2
Winter 1997-98	25.0-67.9	10.5-28.6	16.2	6.8	32	117	15
Calving 1998	30.0-50.0	20.0-33.3	13.6	9.1	10	22	7
Summer 1998	74.3	22.9	32.1	9.9	29	162	18

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1988

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Northwest Territories Renewable Resources

Manuscript Report 22

ABSTRACT

Six hundred five references concerning the natural resources of Auyuittuq National Park Reserve are presented in this annotated bibliography. References are organized alphabetically by author and indexed by fourteen keywords. The bibliography should be a useful reference for anyone interested in the local flora, fauna, or natural environment (aquatic, terrestrial, and atmospheric), both present-day and historic. The database has been computer inputted and can be accessed with IBM-compatible software (WORDPERFECT).

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INTRODUCTION

This annotated bibliography is a compilation of literature on the natural resources of Auyuittuq National Park Reserve. It was prepared under contract to Environment Canada-Parks, Prairie and Northern Region, as part of a basic resource inventory of the park.

Most of the references deal directly with the park although some general reference materials have been included. Citations are organized alphabetically by author in the main body of the bibliography; most are accompanied by annotations and keywords. Up to 8 keywords are given for each citation. A keyword index, beginning on page 6, enables the user to locate literature concerning a specific subject. In this index, the authors and dates of all articles on each subject are listed under separate keyword headings. The keywords are defined as follows:

Auyuittuq refers to articles related specifically to the park.

Climatology pertains to climate, meteorology, and paleoclimatology.

Environmental impact refers to the effects of development - for example, oil drilling or tourism - on the natural environment.

Fauna denotes any type of vertebrate or invertebrate animal species - terrestrial, aquatic, or marine.

Flora concerns all articles dealing with flora and vegetation including studies of marine flora, phytoplankton, benthos, pollen spectra, and lichenometry.

Freshwater applies to freshwater environments, freshwater biota, limnology, and lacustrine, riverine and glacial hydrology.

General references include a broad range of topics or general reference material. **General** also applies to miscellaneous reports and articles.

Geology includes surficial geology, geomorphology, glaciology, and marine geology.

Human History refers to archaeological history, as well as written history.

Marine environment refers to marine environments, marine biota, oceanography, marine geology, marine climatology, sea-level changes, and tides.

Popular refers to material which may be of interest to the public, including magazine and newspaper articles, and brochures.

Resource harvest concerns the use of renewable resources through hunting, fishing, or trapping.

Sea ice concerns all topics related to sea ice, including ice conditions, ice regime, ice climatology, and energy budget studies.

Soils includes soil development, soil types and properties, permafrost, and the use of soils in geological studies.

Citations and annotations were obtained from the "Literature Cited" sections of numerous reports and from the following sources:

A.D. REVILL ASSOCIATES. 1975. A bibliography of the literature pertaining to Auyuittuq National Park on Baffin Island. Unpublished report prepared for Parks Canada. A.D. Revill Associates, Belleville, Ontario. Mimeographed. 3 volumes.

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PETERSON, N.M. (Compiler). 1974-1983. Ecology of the Canadian Arctic Archipelago: selected references. Volumes 1-11. Department of Indian Affairs and Northern Development, Ottawa, Ontario.

RUFFMAN, A. 1974. Unproofed final draft bibliography of the marine aspect of Baffin Island National Park. Contract report prepared by Geomarine Associates, Halifax, Nova Scotia. 28 pp.

The author's name and the date of publication are listed in brackets [] after annotations taken directly from one of the above sources. All other annotations are our own.

A copy of the bibliography is available on floppy disk from the Canadian Parks Service. It has been inputted using WORDPERFECT and can be accessed using this software on an IBM-compatible microcomputer as demonstrated in the Appendix.

ACKNOWLEDGEMENTS

We appreciate the assistance provided by Parks Canada staff (Winnipeg, Ottawa, and Yellowknife) in locating references. The staffs of the Indian and Northern Affairs Technical Library and the Government Library (both in Yellowknife), and Alison Welch (NWT Renewable Resources Library) were also very helpful. We thank Joanne Bird, Bob Ferguson, Mike Fournier, and Laura Wilkinson (NWT Department of Renewable Resources) for reviewing the report and Sinni Tong for her assistance in word-processing.

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WILLIAMS 1975
WILLIAMS, BARRY, and ANDREWS 1972
WILSON 1976
WILSON 1977
YORKE 1972
ZOLTAI, MCCORMICK, and SCOTTER 1983

ENVIRONMENTAL IMPACT

AITKEN 1982
AITKEN and GILBERT 1981
ANONYMOUS 1975c
BLOUIN, DESLOGES, et GUIMOND 1975
BLOUIN, DESLOGES, and GUIMOND 1975
BOCKHEIM 1975
BUCHANAN and RENAUD 1977
CANADIAN WILDLIFE SERVICE 1972
CHURCHILL 1985
CLARK and FINLEY 1977
COLLIN 1980
DYKE, ANDREWS, and MILLER 1982
GILBERT 1980
LOKEN 1980
MACLAREN ATLANTIC LIMITED 1977a
MACLAREN MAREX INCORPORATED 1980
MURRAY, LIBBEY, and CHASE 1970
SMITH, HAMMILL, DOIGE, CARTIER, and SLENO 1979
STIRLING, CALVERT, and ANDRIASHEK 1980
STIRLING, KILIAAN, CALVERT, ANDRIASHEK 1979
WELCH and CHURCHILL 1986
ZOLTAI, MCCORMICK, and SCOTTER 1983

FAUNA

A.D. REVILL ASSOCIATES 1975
AITKEN 1982
AITKEN and GILBERT 1981
ANDERS 1967
ANDREWS, J.T., MILLER, NELSON, MODE, and LOCKE 1981
ANINGMIUQ 1983
ANONYMOUS 1972
ANONYMOUS 1975c
BAIRD no date
BAIRD 1954
BAIRD 1967
BAIRD 1977b
BAIRD 1977c
BAIRD, BONNLANDER, KIDD, MARMET, ORVIG, ROTHLISBERGER, SCHWARZENBACH, THOMPSON, WARD, WATSON, and WEBER 1953.
BAIRD and ROBINSON 1945
BELL 1901
BEST and FISHER 1974
BETHUNE 1935
BOURQUE 1975
BRENEMAN 1984

FAUNA continued

BRENEMAN 1985a
BRENEMAN 1985c
BRENEMAN 1985d
BRENEMAN 1985e
BRINTNELL 1978
BRODIE 1971
BRODIE 1973
BRODIE 1982
BRODIE, PARSONS, and SERGEANT 1981
BROMLEY 1987
BROMLEY and MCLEAN 1986
BROWN, R. 1868
BROWN, R.G.B., NETTLESHIP, GERMAIN, TULL, and DAVIS 1975
BROWN, W.J. 1964
BRUEMMER 1971
BUCHANAN and RENAUD 1977
BUSHNELL and BYRON 1979
CALDER 1970
CALDER 1972
CANADIAN WILDLIFE SERVICE 1972
CHEFFINS, E.B. 1972
CLARK 1971
CLIFTON AND WESTMINSTER EXPEDITION 1977
COLLIN 1980
CURTIS 1975
DALE 1987
DAVIS, FINLEY, and RICHARDSON 1978
DAVIS, FINLEY, and RICHARDSON 1980
DECKER 1988
DEN BESTE and MCCART 1978a
DEN BESTE and MCCART 1978b
DROLET 1978
DUNBAR 1941
DUNBAR 1955
DUNBAR and MOORE 1980
ELLIOTT 1972b
ELLIOTT 1973b
ELLIOTT 1973c
ELLIOTT and ELLIOTT 1974a
ELLIOTT and ELLIOTT 1974b
ELLIOTT and ELLIOTT 1978
ELLIS 1955
ELLIS 1959
FEYLING-HANSSEN 1976
FINLEY, DAVIS, and 1980
GASTON 1985
GASTON and SMITH 1987
GILBERT 1982a
HALL 1987

FAUNA continued

HALLER 1967
HANTZSCH 1913
HANTZSCH 1914
HARINGTON 1962
HARINGTON 1968
HINES and MOORE 1987
JACOBS 1975
JONKEL, LAND, and REDHEAD 1978
KEMP 1971
KEMP 1976
KEMPER 1980
KUMLIEN 1879
LAND 1977
LEE and SCHWEINSBURG 1982
LEE and SCHWEINSBURG 1985
LIVINGSTON 1937
LOUGHREY 1959
LUBINSKY 1980
MACLAREN ATLANTIC LIMITED 1977a
MACLAREN ATLANTIC LIMITED 1977b
MACLAREN ATLANTIC LIMITED 1977c
MACLAREN ATLANTIC LIMITED 1977e
MACLAREN ATLANTIC LIMITED 1977f
MACLAREN ATLANTIC LIMITED 1978a
MACLAREN ATLANTIC LIMITED 1978b
MACLAREN ATLANTIC LIMITED 1978c
MACLAREN ATLANTIC LIMITED 1978d
MACLAREN ATLANTIC LIMITED 1978e
MACLAREN ATLANTIC LIMITED 1978f
MACLAREN ATLANTIC LIMITED 1978g
MACLAREN ATLANTIC LIMITED 1978h
MACLAREN MAREX INCORPORATED 1978
MACLAREN MAREX INCORPORATED 1979a
MACLAREN MAREX INCORPORATED 1979b
MACLAREN MAREX INCORPORATED 1979c
MACLAREN MAREX INCORPORATED 1979e
MACLAREN MAREX INCORPORATED 1979f
MACLAREN MAREX INCORPORATED 1979h
MACLAREN MAREX INCORPORATED 1980
MACPHERSON 1963
MACPHERSON 1964
MANSFIELD 1958
MANSFIELD 1959
MANSFIELD 1966
MANSFIELD 1967a
MANSFIELD 1967b
MANSFIELD 1970
MANSFIELD 1971
MANSFIELD 1973

FAUNA continued

MANSFIELD 1975
MANSFIELD, SERGEANT, and SMITH 1975
MANSFIELD, SMITH, and BECK 1975
MCALLISTER 1975
MCCART and DEN BESTE 1979
MCCARTNEY 1980
MCLAREN 1958a
MCLAREN 1958b
MCLAREN 1961
MCLAREN 1962
MCLAREN 1977
MCLEAN 1984
MITCHELL 1973
MITCHELL and REEVES 1981
MITCHELL and REEVES 1982
MOORE, I.A. and MOORE 1974
MOORE, J.W. 1972
MOORE, J.W. 1975a
MOORE, J.W. 1975b
MOORE, J.W. and MOORE 1974
MURPHY 1973a
MURPHY 1973b
NELSON, J.G. 1975
NELSON, J.G. 1976
NETTLESHIP 1977
NETTLESHIP and BIRKHEAD 1985
NEWMAN 1971
NORTHWEST TERRITORIES WILDLIFE SERVICE 1981
PARADIS, MORRISON, and RAMPTON 1986
PARKS CANADA 1977
PAVSHTIKS 1968
PAVSHTIKS 1972
PAVSHTIKS 1973
PETERSON 1974-1983
REDHEAD 1976?
REDHEAD 1976a
REDHEAD 1976b
REEVES 1976
REEVES 1977
REEVES 1978
RICHARD and ORR 1986
RIPPIN 1972
SCHLEDERMANN 1975a
SCHLEDERMANN 1975b
SERGEANT 1962
SERGEANT 1963
SERGEANT 1965
SERGEANT 1966
SERGEANT 1972

AUNA continued

SERGEANT 1973
SERGEANT 1974
SERGEANT and ARMSTRONG 1973
SERGEANT and BRODIE 1969
SERGEANT and BRODIE 1975
SHORTT and PETERS 1942
SMITH, N.G. 1966
SMITH, T.G. 1973a
SMITH, T.G. 1973b
SMITH, T.G. 1973c
SMITH, T.G. 1975
SMITH, T.G. 1976
SMITH, T.G. 1981
SMITH, T.G. and HAMMILL 1980
SMITH, T.G., HAMMILL, DOIGE, CARTIER, and SLENO 1979
SMITH, T.G. and TAYLOR 1977
SOPER 1928
SOPER 1934
SOPER 1940
SOPER 1944
SOPER 1946
STIRLING, CALVERT, and ANDRIASHEK 1980
STIRLING and CLEATOR 1981
STIRLING, KILIAAN, CALVERT, ANDRIASHEK 1979
TATTERSALL 1939
TENER 1961
TENER and SOLMAN 1960
USHER, DELANCEY, WENZEL, SMITH, and WHITE 1985
VAN ZYLL DE JONG 1975
WATSON 1956
WATSON 1957a
WATSON 1957b
WATSON 1962
WATSON 1963
WATSON 1986
WEAVER and GRIER 1970
WEBB 1976a
WEBB 1976b
WELCH 1984
WILSON 1976
WILSON 1977
WOOD 1974
WOODWARD-CLYDE CONSULTANTS 1981
WYNNE-EDWARDS 1952a
WYNNE-EDWARDS 1952b
ZOLTAI, MCCORMICK, and SCOTTER 1983

FLORA

A.D. REVILL ASSOCIATES 1975
AITKEN 1982
AITKEN and GILBERT 1981
ANDREWS, J.T. 1975
ANDREWS, J.T., BARRY, JACOBS, and 1975
ANDREWS, J.T., BARRY, and WEAVER 1975
ANDREWS, J.T., DAVIS, MODE, NICHOLS, and SHORT 1981
ANDREWS, J.T. and MILLER 1979
ANDREWS, J.T., MODE, and DAVIS 1980
ANDREWS, J.T. MODE, WEBER, MILLER, and JACOBS 1980
ANDREWS, J.T. and NICHOLS 1981
ANDREWS, J.T., STUCKENRATH, NICHOLS, and MILLER 1974
ANDREWS, J.T., WEBBER, and NICHOLS 1979
ANDREWS, M., and ANDREWS 1980
ANONYMOUS 1972
BAIRD 1954
BAIRD 1977a
BAIRD 1977c
BAIRD, BONNLANDER, KIDD, MARMET, ORVIG, ROTHLISBERGER, SCHWARZENBACH, THOMPSON, WARD, WATSON, and WEBER 1953
BAIRD and ROBINSON 1945
BAIRD, ROTHLISBERGER, MARMET, and SCHWARZENBACH 1954
BARRY, ELLIOTT, and CRANE 1981
BIRD 1967
BLOUIN, DESLOGES, et GUIMOND 1975
BLOUIN, DESLOGES, and GUIMOND 1975
BOULTON, DICKSON, NICHOLS, NICHOLS, and SHORT 1976
BRASSARD, BELLAND, and BRIDGLAND 1982
BUCHANAN and RENAUD 1977
BUNCH 1979
CARRARA 1975
CARRARA and ANDREWS 1972
CHARRON et LE SAUTEUR 1975
CHEFFINS, E.B. 1972
CHURCH 1972b
CLAYTON, EHRLICH, CANN, DAY, and MARSHALL 1977
CLIFTON AND WESTMINSTER EXPEDITION 1977
CURTIS 1975
DAVIS 1980
DEN BESTE and MCCART 1978b
DICKIE 1867
ELLIOTT 1973b
ELLIOTT and ELLIOTT 1978
ELLIS 1959
FARLOW 1879
GEO-ANALYSIS (1981) LIMITED 1985
GILBERT 1984b
HINES and MOORE 1987
KENT 1972

FLORA continued

LAFARGE-ENGLAND 1975
LEE 1980
MACLAREN ATLANTIC LIMITED 1977a
MACLAREN ATLANTIC LIMITED 1977b
MACLAREN ATLANTIC LIMITED 1978h
MACLAREN MAREX INCORPORATED 1979d
MACLAREN MAREX INCORPORATED 1979e
MACLAREN MAREX INCORPORATED 1979f
MACLAREN MAREX INCORPORATED 1979g
MANSFIELD 1975
MILLER 1973b
MILLER and ANDREWS 1972
MOORE, J.W. 1974a
MOORE, J.W. 1974b
MOORE, J.W. 1974c
MOORE, J.W. 1975a
MOORE, J.W. 1981
MOORE, T.R. 1978a
PARADIS, MORRISON, and RAMPTON 1986
PARKS CANADA 1977
PAVSHTIKS 1968
PETERSON 1974-1983
POLUNIN 1940
POLUNIN 1947
POLUNIN 1948
POLUNIN 1954
PORSILD 1957
SCHWARZENBACH no date
SCHWARZENBACH 1954
SCHWARZENBACH 1961
SEMPLES 1982
SHORT and ANDREWS 1980
SOPER 1940
SOPER 1944
STRZELCZYK, ROUATT, and PETERSON 1969
TEDROW 1977
TERASMAE 1974a
TERASMAE 1974b
TERASMAE 1975
TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED 1985
THOMPSON 1953
THOMSON 1984
WATSON 1956
WATSON 1957a
WELCH 1984
WELCH 1985
WELCH and CHURCHILL 1986
WILSON 1976
WILSON 1977
WOODWARD-CLYDE CONSULTANTS 1981
ZOLTAI, MCCORMICK, and SCOTTER 1983

FRESHWATER

ALLEN and CUDBIRD 1971
ANDREWS, J.T. 1970
ANDREWS, J.T., DYKE, ISHERWOOD, MILLER, and WEAVER 1973
BIRD 1977b
BUSHNELL and BYRON 1979
CENTRE DE RECHERCHES SUR L'EAU 1978
CHARRON et LE SAUTEUR 1975
CHURCH 1970
CHURCH 1972a
CHURCH 1972b
CHURCH 1974
CHURCH 1978
CHURCH and GILBERT 1975
GILBERT 1978a
GILBERT 1982a
GILBERT and CHURCH 1980
GILBERT and CHURCH 1983
JACOBS, ANDREWS, BARRY, BRADLEY, WEAVER, and WILLIAMS 1972
MACKAY and LOKEN 1974
MCCART and DEN BESTE 1979
MOORE, J.W. 1972
MOORE, J.W. 1974a
MOORE, J.W. 1974b
MOORE, J.W. 1974c
MOORE, J.W. 1975a
MOORE, J.W. 1975b
MOORE, J.W. 1975c
MOORE, J.W. 1981
MOORE, J.W. and MOORE 1974
PETERSON 1974-1983
POLUNIN 1947
ROBITAILLE 1978
ROBITAILLE and BLACKBURN 1977
THOMPSON and BONNLANDER 1956
WEAVER 1975
WELCH 1984
WOODWARD-CLYDE CONSULTANTS 1981

GENERAL

A.D. REVILL ASSOCIATES 1975
ANDREWS. J.T. 1967
ANDREWS, J.T., BARRY, JACOBS, and NICHOLS 1975
ANDREWS, J.T., DYKE, ISHERWOOD, MILLER, and WEAVER 1973
ANDREWS, J.T., HARRISON, MILLER, and DYKE 1973
ANDREWS, M. 1975

GENERAL continued

ANDREWS, M. 1986
ANDREWS, M., and ANDREWS 1980
ANONYMOUS no date
ANONYMOUS 1953
ANONYMOUS 1972
ANONYMOUS 1973
ANONYMOUS 1975a
ANONYMOUS 1975b
ARCTIC INSTITUTE OF NORTH AMERICA 1953-1975
BACHMAN 1975
BAIRD 1952
BAIRD 1954
BAIRD 1966
BAIRD 1967
BAIRD 1972
BAIRD 1976
BAIRD, BONNLANDER, KIDD, MARMET, ORVIG, ROTHLISBERGER, SCHWARZENBACH, THOMPSON, WARD, WATSON, and WEBER 1953
BAIRD, MORTON, and WEETMAN 1964
BAIRD and ROBINSON 1945
BAIRD, ROTHLISBERGER, MARMET, and SCHWARZENBACH 1954
BAIRD and THOMPSON 1954
BARRY, R.G. 1973
BELL 1901
BETHUNE 1935
BOAS 1884a
BOAS 1884b
BOAS 1885
BOAS 1887
BRENEMAN 1985b
BROWN, K. 1982
CARSON 1954
CHEFFINS, W.H. 1973
CLIFTON AND WESTMINSTER EXPEDITION 1977
DUDLEY 1972
DURVILLE 1978
ELLIOTT 1972a
ELLIOTT 1973a
ELLIOTT 1973b
ELLIOTT and ELLIOTT 1978
GARDNER and NELSON 1980
GEO-ANALYSIS (1981) LIMITED 1985
HALLER 1967
HANCOCK 1988
HARPER no date
HARPER 1973
HEGGIE 1979
HINES and MOORE 1987
JACOBS 1975

GENERAL continued

JAMES 1972
KEMP, D. 1972
KEMP, W.B. 1971
KUMLIEN 1879
LAMONT 1980
LANGFORD 1962
LANGFORD 1965
LAWSON 1984
LOKEN 1980
MARKLEY 1978
MARSHALL 1978
MAYES 1975
MCISAAC 1976
MILLWARD 1930
MILNE 1979
MORIN 1977
NELSON, J.G. 1975
NELSON, J.G. 1976
NEWBERRY 1982
PARCS CANADA 1973 ca
PARKS CANADA no date
PARKS CANADA 1973a
PARKS CANADA 1973b
PARKS CANADA 1975a
PARKS CANADA 1975b
PARKS CANADA 1975c
PARKS CANADA 1977
PARKS CANADA 1981
PARKS CANADA 1982
PARKS CANADA 1983a
PARKS CANADA 1983b
PARKS CANADA 1983c
PARKS CANADA 1983d
PARKS CANADA 1985
PEARSON 1971
PETERSON 1974-1983
POIREL 1976
RESOURCE MANAGEMENT CONSULTANTS (N.W.T.) LIMITED 1981
ROSEN 1983
RUFFMAN 1974
RUSKIN 1972a
RUSKIN 1972b
SCHLEDERMANN 1975a
SCHLEDERMANN 1975b
SIEBER 1978
SIEBER 1980
SIEBER 1981
SIMMONS, SCOTTER, and CHEFFINS 1975
SOPER 1930

GENERAL continued

SOPER 1973
SOPER 1981
SPINK 1969
SPINK and MOODIE 1972
THOMPSON 1953
WELCH 1984
WILSON and CLARKE 1965
WILSON 1976
WILSON 1977
WOODWARD-CLYDE CONSULTANTS 1981
WYNNE-EDWARDS 1952b

GEOLOGY

A.D. REVILL ASSOCIATES 1975
AITKEN 1982
AITKEN and GILBERT 1981
ANDERSON 1976 Rates
ANDERSON 1976 Source
ANDERSON 1978
ANDREWS, J.T. 1970
ANDREWS, J.T. 1972
ANDREWS, J.T. 1973a
ANDREWS, J.T. 1973b
ANDREWS, J.T. 1975
ANDREWS, J.T. 1976b
ANDREWS, J.T. 1977a
ANDREWS, J.T. 1977b
ANDREWS, J.T. 1977d
ANDREWS, J.T. 1977e
ANDREWS, J.T. 1985
ANDREWS, J.T. and BARRY 1971
ANDREWS, J.T. and BARRY 1972a
ANDREWS, J.T. and BARRY 1972b
ANDREWS, J.T., BARRY, BRADLEY, MILLER, and WILLIAMS 1972
ANDREWS, J.T., BARRY, and DRAPIER 1969
ANDREWS, J.T., BARRY, and DRAPIER 1970
ANDREWS, J.T., BARRY, and JACOBS 1973
ANDREWS, J.T., BARRY, JACOBS, and NICHOLS 1975
ANDREWS, J.T., BARRY, and WEAVER 1975
ANDREWS, J.T., BUCKLEY, and ENGLAND 1970
ANDREWS, J.T. and DUGDALE 1971a
ANDREWS, J.T. and DUGDALE 1971b
ANDREWS, J.T. and DYKE 1974
ANDREWS, J.T., DYKE, ISHERWOOD, MILLER, and WEAVER 1973

GEOLOGY continued

ANDREWS, J.T., FEYLING-HANSSEN, MILLER, SCHLUCHTER, STUIVER, and SZABO 1976
ANDREWS, J.T., FUNDER, HJORT, and IMBRIE 1974
ANDREWS, J.T., HARE, ISHERWOOD, PHEASANT, and SZABO 1973
ANDREWS, J.T., HARRISON, MILLER, and DYKE 1973
ANDREWS, J.T. and IVES 1972
ANDREWS, J.T. and IVES 1978
ANDREWS, J.T. and JACOBS 1974
ANDREWS, J.T., MEARS, MILLER, and PHEASANT 1972
ANDREWS, J.T. and MILLER 1972a
ANDREWS, J.T. and MILLER 1972b
ANDREWS, J.T. and MILLER 1972c
ANDREWS, J.T. and MILLER 1976
ANDREWS, J.T. and MILLER 1979
ANDREWS, J.T., MILLER, NELSON, MODE, and LOCKE 1981
ANDREWS, J.T., MODE, WEBER, MILLER, and JACOBS 1980
ANDREWS, J.T. and NICHOLS 1981
ANDREWS, J.T., STUCKENRATH, NICHOLS, and MILLER 1974
ANDREWS, J.T., SZABO, and ISHERWOOD 1975
ANDREWS, J.T., WEBBER, and NICHOLS 1979
ANDREWS, M. and ANDREWS 1979
ANDREWS, M. and ANDREWS 1980
BAIRD 1954
BAIRD 1955
BAIRD 1967
BAIRD, BONNLANDER, KIDD, MARMET, ORVIG, ROTHLISBERGER, SCHWARZENBACH, THOMPSON, WARD, WATSON, and WEBER 1953
BAIRD and ROBINSON 1945
BAIRD, ROTHLISBERGER, MARMET, and SCHWARZENBACH 1954
BARRY, R.G. 1972
BARRY, R.G. 1977
BARRY, R.G., BRADLEY, and JACOBS 1975
BARRY, R.G., CRANE, LOCKE, LOCKE, and MILLER 1977
BARRY, R.G., ELLIOTT, and CRANE 1981
BELL 1901
BIRD 1967
BIRD 1977a
BIRD 1977b
BIRKELAND 1975
BIRKELAND 1978
BLACKADAR 1967
BLAKE 1966
BLOUIN, DESLOGES, et GUIMOND 1975
BLOUIN, DESLOGES, and GUIMOND 1975
BOAS 1887
BOCKHEIM 1975
BOCKHEIM 1978
BOCKHEIM 1979
BOULTON, DICKSON, NICHOLS, NICHOLS, and SHORT 1976

GEOLOGY continued

BOYER 1972
BOYER and PHEASANT 1974
BRADLEY 1973a
BRADLEY and MILLER 1972
BRIGHAM 1979
BRIGHAM 1980
BROWN, R.J.E. 1972
CARRARA 1975
CARRARA and ANDREWS 1972
CHARRON et LE SAUTEUR 1975
CHEFFINS, E.B. 1972
CHRISTIE 1971
CHRISTIE 1973
CHURCH 1970
CHURCH 1972a
CHURCH 1972b
CHURCH 1978
CHURCH and GILBERT 1975
CHURCH, STOCK, and RYDER 1979
CLAYTON, EHRLICH, CANN, DAY, and MARSHALL 1977
CLIFTON AND WESTMINSTER EXPEDITION 1977
CORBELLINI and VALENTINO 1977
CRANE 1978b
CRANE 1979
DAVIS 1980
DUGDALE 1972
DUNBAR and GREENAWAY 1956
DYKE 1977
DYKE 1978
DYKE 1979
DYKE, ANDREWS, and MILLER 1982
DYKE, BOCKHEIM, and LAFARGE 1974
ENGLAND and ANDREWS 1973
EVANS and CAMERON 1979
FAHRIG and SCHWARTZ 1973
FALCONER, ANDREWS, and IVES 1965
FALCONER, IVES, LOKEN, and ANDREWS 1965
GEO-ANALYSIS (1981) LIMITED 1985
GILBERT 1977
GILBERT 1978a
GILBERT 1978b
GILBERT 1979
GILBERT 1980
GILBERT 1982a
GILBERT 1982b
GILBERT 1984?
GILBERT 1984a
GILBERT 1984b
GILBERT and AITKEN 1981

GEOLOGY continued

GILBERT and CHURCH 1980
GILBERT and CHURCH 1983
HINES and MOORE 1987
HOLDSWORTH 1979
HOLDSWORTH 1982
HOOD and BOWER 1975
IVES 1975
IVES 1978
JACKSON 1971
JACKSON and TAYLOR 1972
JACOBS 1973
JACOBS, ANDREWS, BARRY, BRADLEY, WEAVER, and WILLIAMS 1972
JACOBS, BARRY, and WEAVER 1974
JACOBS and LEUNG 1980
JOHNSON and ANDREWS 1979
KOERNER 1980
LIND, ANDREWS, and STRAVERS 1981
LOCKE 1978a
LOCKE 1978b
LOCKE 1979a
LOCKE 1979b
LOCKE 1980
LOEWE 1971
LOKEN 1966
LOKEN and HODGSON 1971
MACLEAN 1978
MACLEAN and FALCONER 1979
MACLEAN, JANSA, FALCONER, and SRIVASTAVA 1977
MCKENNA-NEUMAN 1985
MCKENNA-NEUMAN and GILBERT 1985
MCMILLAN 1973
MEARS 1972
MILLER 1972
MILLER 1973a
MILLER 1973b
MILLER 1975
MILLER 1976
MILLER and ANDREWS 1972
MILLER, ANDREWS, and SHORT 1977
MILLER and BRADLEY 1977
MILLER and DYKE 1973
MILLER and DYKE 1974
MILLER, LOCKE, and LOCKE 1980
MILLER and WILLIAMS 1974
NELSON, A.R. 1977
NELSON, A.R. 1978a
NELSON, A.R. 1978b
NELSON, A.R. 1980
NELSON, A.R. 1981

GEOLOGY continued

NELSON, A.R. 1982
NICHOLS 1977
NICHOLS and KELLY 1978
ORVIG 1954a
ORVIG 1954b
PARADIS, MORRISON, and RAMPTON 1986
PARKS CANADA 1977
PHEASANT 1971
PHEASANT and ANDREWS 1972a
PHEASANT and ANDREWS 1972b
PHEASANT and ANDREWS 1973
PHILLIPS 1980
PIPER and SLATT 1977
POLUNIN 1948
PULLAN, HUNTER, and GILBERT 1983
RAND CORPORATION 1963
RILEY 1957
RILEY 1960
ROBITAILLE 1978
ROBITAILLE and BLACKBURN 1977
ROTHLISBERGER 1955
RYDER 1966
SCHWARZENBACH no date
SEMPLES 1982
SOPER 1930
SOPER 1944
STOCK 1968
STUCKENRATH, MILLER, and ANDREWS 1979
SUGDEN and JOHN 1976
SUGDEN and WATTS 1977
TEDROW 1977
TERASMAE 1974a
TERASMAE 1974b
TERASMAE 1975
TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED 1985
THOMPSON 1953
THOMPSON 1954a
THOMPSON 1954b
THOMPSON 1955
THOMPSON 1957
THOMPSON and BONNLANDER 1956
WARD 1955a
WARD 1955b
WARD and BAIRD 1954
WATTS 1977
WATTS 1979
WEAVER 1975
WEBER 1967
WEBER and ANDRIEUX 1970

GEOLOGY continued

WEEKS 1928
WELCH 1984
WELCH 1985
WELCH and CHURCHILL 1986
WILLIAMS 1972
WILLIAMS 1975
WILSON 1976
WILSON 1977
WOODWARD-CLYDE CONSULTANTS 1981
ZOLTAI, MCCORMICK, and SCOTTER 1983

HUMAN HISTORY

A.D. REVILL ASSOCIATES 1975
ANDERS 1967
ANDREWS, M., and ANDREWS 1979
BAIRD 1967
BARRY, R.G., ARUNDALE, ANDREWS, BRADLEY, and NICHOLS 1977
BELL 1901
BETHUNE 1935
BOAS 1884a
BOAS 1884b
BOAS 1885
BRINTNELL 1978
BRUEMMER 1971
CHEFFINS, W.H. 1973
DUNBAR and GREENAWAY 1956
HARPER no date
HARPER 1972
JACOBS and SABO 1978
KEMP 1972
KEMP 1971
KEMP 1973
KEMP 1975
KUMLIEN 1879
MACLAREN ATLANTIC LIMITED 1978g
MCCARTNEY 1980
MILLWARD 1930
PHILLIPS 1980
RUSKIN 1972a
RUSKIN 1972b
SCHLEDERMANN 1971a
SCHLEDERMANN 1971b
SCHLEDERMANN 1972
SCHLEDERMANN 1973a
SCHLEDERMANN 1973b

HUMAN HISTORY continued

SCHLEDERMANN 1974
SCHLEDERMANN 1975a
SCHLEDERMANN 1975b
SCHLEDERMANN 1977
SPINK 1969
SPINK and MOODIE 1972
WILSON 1976
WILSON 1977
ZOLTAI, MCCORMICK, and SCOTTER 1983

MARINE ENVIRONMENT

AITKEN 1982
AITKEN and GILBERT 1981
ALLEN and CUDBIRD 1971
ANDREWS, J.T. 1972
ANDREWS, J.T. 1985
ANDREWS, J.T., DYKE, ISHERWOOD, MILLER, and WEAVER 1973
ANDREWS, J.T., MILLER, NELSON, MODE, and LOCKE 1981
ANONYMOUS 1975c
ASSELIN 1977
BAIRD and ROBINSON 1945
BARRY, R.G., ARUNDALE, ANDREWS, BRADLEY, and NICHOLS 1977
BARRY, R.G., CRANE, LOCKE, LOCKE, and MILLER 1977
BEST and FISHER 1974
BIRD 1977b
BRIGHAM 1979
BRINTNELL 1978
BRODIE 1971
BRODIE 1973
BRODIE 1982
BRODIE, PARSONS, and SERGEANT 1981
BROWN, K. 1982
BROWN, R. 1868
BROWN, R.G.B., NETTLESHIP, GERMAIN, TULL, and DAVIS 1975
BRUEMMER 1971
BUCHANAN and RENAUD 1977
BUNCH 1979
CALDER 1970
CALDER 1972
CANPLAN OCEANOLOGY LIMITED 1976
CLARK and FINLEY 1977
COLLIN 1963
COLLIN 1980
CURTIS 1975
DALE 1987

MARINE ENVIRONMENT continued

DAVIS, FINLEY, and RICHARDSON 1978
DAVIS, FINLEY, and RICHARDSON 1980
DEN BESTE and MCCART 1978a
DEN BESTE and MCCART 1978b
DICKIE 1867
DUNBAR 1941
DUNBAR 1955
DUNBAR and MOORE 1980
DYKE 1979
ELLIOTT 1973c
ELLIS 1955
ELLIS 1959
ENGLAND and ANDREW 1973
FARLOW 1879
FENCO CONSULTANTS LIMITED 1977
FEYLING-HANSSEN 1976
FINLEY, DAVIS, and SILVERMAN 1980
GASTON 1985
GASTON and SMITH 1987
GILBERT 1977
GILBERT 1978a
GILBERT 1978b
GILBERT 1979
GILBERT 1980
GILBERT 1982a
GILBERT 1982b
GILBERT 1984?
GILBERT 1984a
GILBERT 1984b
GILBERT and AITKEN 1981
GODIN and BARBER 1980
HALLER 1967
HARE and MONTGOMERY 1949
HARINGTON 1962
HARINGTON 1968
HOOD and BOWER 1975
JACOBS 1974a
JACOBS and BARRY 1972a
JACOBS and BARRY 1972b
JACOBS, BARRY, STANKOV, and WILLIAMS 1972
JONKEL, LAND, and REDHEAD 1978
JORDAN and NEU 1981
KEMPER 1980
KENT 1972
LAND 1977
LEE and SCHWEINSBURG 1982
LEE and SCHWEINSBURG 1985
LEE, R.K.S. 1980
LIVINGSTON 1937

MARINE ENVIRONMENT continued

LOKEN 1966
LOKEN 1980
LOKEN and HODGSON 1971
LOUGHREY 1959
LUBINSKY 1980
MACLAREN ATLANTIC LIMITED 1977a
MACLAREN ATLANTIC LIMITED 1977b
MACLAREN ATLANTIC LIMITED 1977c
MACLAREN ATLANTIC LIMITED 1977d
MACLAREN ATLANTIC LIMITED 1977e
MACLAREN ATLANTIC LIMITED 1977f
MACLAREN ATLANTIC LIMITED 1978a
MACLAREN ATLANTIC LIMITED 1978b
MACLAREN ATLANTIC LIMITED 1978c
MACLAREN ATLANTIC LIMITED 1978d
MACLAREN ATLANTIC LIMITED 1978e
MACLAREN ATLANTIC LIMITED 1978f
MACLAREN ATLANTIC LIMITED 1978g
MACLAREN ATLANTIC LIMITED 1978h
MACLAREN MAREX INCORPORATED 1978
MACLAREN MAREX INCORPORATED 1979a
MACLAREN MAREX INCORPORATED 1979b
MACLAREN MAREX INCORPORATED 1979c
MACLAREN MAREX INCORPORATED 1979d
MACLAREN MAREX INCORPORATED 1979e
MACLAREN MAREX INCORPORATED 1979f
MACLAREN MAREX INCORPORATED 1979g
MACLAREN MAREX INCORPORATED 1979h
MACLAREN MAREX INCORPORATED 1980
MACLEAN 1978
MACLEAN and FALCONER 1979
MACLEAN, JANSA, FALCONER, and SRIVASTAVA 1977
MANSFIELD 1958
MANSFIELD 1959
MANSFIELD 1966
MANSFIELD 1967a
MANSFIELD 1967b
MANSFIELD 1970
MANSFIELD 1971
MANSFIELD 1973
MANSFIELD 1975
MANSFIELD, SERGEANT, and SMITH 1975
MANSFIELD, SMITH, and BECK 1975
MAXWELL 1982
MCALLISTER 1975
MCCART and DEN BESTE 1979
MCCARTNEY 1980
MCKAY 1978
MCLAREN 1958a

MARINE ENVIRONMENT continued

MCLAREN 1958b
MCLAREN 1961
MCLAREN 1962
MCLAREN 1977
MCMILLAN 1973
MEARS 1972
MILNE 1979
MITCHELL 1973
MITCHELL and REEVES 1981
MITCHELL and REEVES 1982
MOORE, I.A. and MOORE 1974
MOORE, J.W. 1972
MOORE, J.W. 1975b
MOORE, J.W. 1975c
MOORE, J.W. and MOORE 1974
MURPHY 1973b
MURRAY, LIBBEY, and CHASE 1970
NELSON, A.R. 1982
NETTLESHIP 1977
NETTLESHIP and BIRKHEAD 1985
NEWMAN 1971
NORTHWEST TERRITORIES WILDLIFE SERVICE 1981
OSBURN, LEBLOND, and HODGINS 1978
PAVSHTIKS 1968
PAVSHTIKS 1972
PAVSHTIKS 1973
PETERSON 1974-1983
PHEASANT and ANDREWS 1973
PIPER and SLATT 1977
POLUNIN 1947
PULLAN, HUNTER, and GILBERT 1983
REDHEAD 1976a
REEVES 1976
REEVES 1977
REEVES 1978
RICHARD and ORR 1986
RUFFMAN 1974
SCHLEDERMANN 1975b
SEMPLES 1982
SERGEANT 1962
SERGEANT 1963
SERGEANT 1965
SERGEANT 1966
SERGEANT 1972
SERGEANT 1973
SERGEANT 1974
SERGEANT and ARMSTRONG 1973
SERGEANT and BRODIE 1969
SERGEANT and BRODIE 1975

MARINE ENVIRONMENT continued

SMITH, N.G. 1966
SMITH, T.G. 1973a
SMITH, T.G. 1973b
SMITH, T.G. 1973c
SMITH, T.G. 1975
SMITH, T.G. 1976
SMITH, T.G. 1981
SMITH, T.G. and HAMMILL 1980
SMITH, T.G., HAMMILL, DOIGE, CARTIER, and SLENO 1979
SMITH, T.G. and TAYLOR 1977
STIRLING, CALVERT, and ANDRIASHEK 1980
STIRLING and CLEATOR 1981
STIRLING, KILIAAN, CALVERT, ANDRIASHEK 1979
TATTERSALL 1939
THOMPSON 1953
WEBB 1976a
WEBB 1976b
WEEKS 1928
WOODWARD-CLYDE CONSULTANTS 1981

POPULAR

ANONYMOUS no date
ANONYMOUS 1972
ANONYMOUS 1974
ANONYMOUS 1975a
BACHMAN 1975
BAIRD 1966
BAIRD 1976
BAIRD 1977a
BAIRD 1977b
BAIRD 1977c
BAIRD, MORTON, and WEETMAN 1964
BRINTNELL 1978
CARSON 1954
CHEFFINS, W.H. 1973
DURVILLE 1978
HANCOCK 1988
HARPER 1973
KEMP 1972
LAMONT 1978
LAMONT 1980
LANGFORD 1962
MARSHALL 1978
MILLER and BRADLEY 1977
MORIN 1977

POPULAR continued

NEWBERRY 1982
NORTHWEST TERRITORIES WILDLIFE SERVICE 1981
PARKS CANADA no date
PARKS CANADA 1975a
PARKS CANADA 1975b
PARKS CANADA 1981
PARKS CANADA 1983a
PARKS CANADA 1983b
PARKS CANADA 1983d
POIREL 1976
ROSEN 1983
SCHLEDERMANN 1977
SIEBER 1980
SIEBER 1981
SIMMONS, SCOTTER, and CHEFFINS 1975
SOPER 1973
WILSON and CLARKE 1965
WYNNE-EDWARDS 1952b

RESOURCE HARVEST

ANDERS 1967
BRUEMMER 1971
CHEFFINS, E.B. 1972
DAVIS, FINLEY, and RICHARDSON 1980
DROLET 1978
DUNBAR 1955
FINLEY, DAVIS, and SILVERMAN 1980
HALLER 1967
JACOBS 1975
KEMP 1976
KEMPER 1980
LAND 1977
LIVINGSTON 1937
LOUGHREY 1959
MACLAREN ATLANTIC LIMITED 1978g
MANSFIELD 1959
MANSFIELD 1966
MANSFIELD 1970
MANSFIELD, SMITH, and BECK 1975
MCCARTNEY 1980
MCLAREN 1958b
MCLAREN 1962
MCLAREN 1977
MITCHELL 1973
MITCHELL and REEVES 1981

RESOURCE HARVEST continued

MITCHELL and REEVES 1982
MOORE, J.W. 1972
NELSON, J.G. 1975
NEWMAN 1971
REEVES 1976
REEVES 1977
REEVES 1978
RICHARD and ORR 1986
SERGEANT 1962
SERGEANT 1963
SMITH, T.G. 1973b
SMITH, T.G. 1973c
SMITH, T.G. 1975
SMITH, T.G. 1976
SMITH, T.G. and TAYLOR 1977
TENER 1961
TENER and SOLMAN 1960
USHER, DELANCEY, WENZEL, SMITH, and WHITE 1985
VAN ZYLL DE JONG 1975
WOOD 1974

SEA ICE

ALLEN and CUDBIRD 1971
ANDREWS, J.T., BARRY, JACOBS, and NICHOLS 1975
ANDREWS, M. and ANDREWS 1979
ANDREWS, M. and ANDREWS 1980
ASSELIN 1977
BARRY, R.G., CRANE, LOCKE, LOCKE, and MILLER 1977
BARRY, R.G., JACOBS, CRANE, KEEN, MORITZ, LEDREW, and WEAVER 1978
BIRD 1967
BIRD 1977b
BRADFORD and MOLINE 1980
BRADLEY 1973a
COLLIN 1963
CRANE 1978a
CRANE 1978b
CRANE 1979
DUNBAR and MOORE 1980
FENCO CONSULTANTS LIMITED 1977
FRASER 1975
GILBERT and AITKEN 1981
GODIN and BARBER 1980
HARE and MONTGOMERY 1949
JACOBS 1973

SEA ICE continued

JACOBS, BARRY, BRADLEY, and WEAVER 1974
JACOBS, BARRY, and WEAVER 1975
JACOBS and NEWELL 1979
JORDAN and NEU 1981
JORDAN and NEU 1982
KEEN 1978
LOKEN 1972
MACLAREN ATLANTIC LIMITED 1977d
MACLAREN MAREX INCORPORATED 1979e
MACLAREN MAREX INCORPORATED 1979f
MACLAREN MAREX INCORPORATED 1979g
MAXWELL 1982
MILLER, LOCKE, and LOCKE 1980
SMIRLE and BRADFORD 1970
SMITH and HAMMILL 1980
STIRLING and CLEATOR 1981
VLADIMIROV 1964
WEAVER 1976
WEAVER, BARRY, and JACOBS 1976

SOILS

ANDREWS, J.T. 1975
ANDREWS, J.T. 1976a
ANDREWS, J.T. 1977a
ANDREWS, J.T., DYKE, ISHERWOOD, MILLER, and WEAVER 1973
ANDREWS, J.T., and MILLER 1972a
ANDREWS, M., and ANDREWS 1980
BIRD 1967
BIRKELAND 1975
BIRKELAND 1978
BLOUIN, DESLOGES, et GUIMOND 1975
BLOUIN, DESLOGES, and GUIMOND 1975
BOCKHEIM 1975
BOCKHEIM 1978
BOCKHEIM 1979
BROWN, R.J.E. 1972
CLAYTON, EHRLICH, CANN, DAY, and MARSHALL 1977
DYKE 1978
EVANS and CAMERON 1979
LOCKE 1979a
LOCKE 1979b
MILLER 1973a
MILLER, ANDREWS, and SHORT 1977
MOORE, T.R. 1978a
MOORE, T.R. 1978b

SOILS continued

STRZELCZYK, ROUATT, and PETERSON 1969
STUCKENRATH, MILLER, and ANDREWS 1979
TEDROW 1973
TEDROW 1977
TERASMAE 1975
TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED 1985
WATTS 197?
WATTS 1979
WELCH 1984
WELCH 1985
ZOLTAI, MCCORMICK, and SCOTTER 1983

ANNOTATED CITATIONS

A.D. REVILL ASSOCIATES. 1975. A bibliography of the literature pertaining to Auyuittuq National Park on Baffin Island. Unpublished report prepared for Parks Canada. A.D. Revill Associates, Belleville, Ontario. Mimeographed. 3 volumes.

Volume II contains references specific to the park area while Volume III contains references for Baffin Island as a whole. Both volumes are arranged in three sections: physical geography, biology, and human activity. The material in each section is then subdivided further. Volume I contains a review of the available literature in each subdivision.

General, geology, climatology, flora, fauna, human history, Auyuittuq

AITKEN, A.E. 1982. Biophysical processes on the intertidal flats at Pangnirtung Fiord, Baffin Island, N.W.T. M.Sc. thesis, Queen's University, Kingston, Ontario. 229 pp.

This report discusses geological and other physical characteristics of fiords and their effects on fauna and flora. The impact of oil spills on the biota of the fiords is considered.

Geology, marine environment, fauna, flora, environmental impact

AITKEN, A.E., and R. GILBERT. 1981. Biophysical processes on intertidal flats at Pangnirtung Fiord, Baffin Island, N.W.T. Final report of research supported by funds from Petro-Canada Exploration Incorporated and Queen's University. 92 pp.

This report discusses geological and other physical characteristics of fiords and their effects on fauna and flora. The impact of oil spills on the biota of the fiords is considered.

Geology, marine environment, fauna, flora, environmental impact

ALLEN, W.T.R., and B.S.V. CUDBIRD. 1971. Freeze-up and break-up dates of water bodies in Canada. Canadian Meteorological Service, Department of Transport, Toronto, Ontario. CLI-1-77. 144 pp.

Provides data on freeze-up and break-up for a total of 442 water bodies in Canada including Davis Strait at Broughton Island and Cape Hooper, an unnamed lake at Broughton Island, the Sunneshine Fjord at Cape Dyer, an unnamed lake at Cape Hooper, Patricia Bay at Clyde, and Dewar Lakes.

Sea ice, climatology, marine environment, freshwater

ANDERS, G. (Editor). 1967. Baffin Island - east coast: an area economic survey. Industrial Division, Northern Administration Branch, Department of Indian Affairs and Northern Development, Ottawa, Ontario. Area economic survey report 66/4. 196 pp.

One of a series of Area Economic Surveys by DIAND to determine the basis for local economic and social progress in the N.W.T. Includes chapters on the physical environment, biological resources, historic background, seasonal seal hunting patterns, economics of hunting, capital goods, regional income and expenditures. Much detailed treatment of Cumberland Sound in particular. [A.D. Revill Associates 1975]

General, fauna, resource harvest, climatology, human history

ANDERSON, L.W. 1976. Rates of cirque glacier erosion and source of glacial debris, Pangnirtung Fiord area, Baffin Island, N.W.T., Canada. M.Sc. thesis, University of Colorado, Boulder, Colorado. 78 pp.

Geology

ANDERSON, L.W. 1976. Source of cirque glacier debris, Pangnirtung Fiord area, Baffin Island, N.W.T., Canada. American Quaternary Association 4th Biennial Meeting, Arizona State University, Tempe, Abstracts. p. 120.

Geology

ANDERSON, L.W. 1978. Cirque glacier erosion rates and characteristics of neoglacial tills, Pangnirtung Fiord area, Baffin Island, N.W.T, Canada. Arctic and Alpine Research, 10:749-760.

Ten cirque glaciers and their neoglacial deposits were studied in the Pangnirtung Fiord area of Baffin Island to determine the origin of glacial debris and the erosion rates of subpolar glaciers. Aerial photographs, topographic maps, laboratory work, and field surveys provided information on glacier and cirque areas, volume, texture and source of till. [Andrews and Andrews 1980]

Geology

ANDREWS, J.T. 1970. University of Colorado: 1969 summer field season in east Baffin Island. Arctic, 23:61-63.

The results of mass and energy balance studies on the Boas Glacier are presented for two contrasting years. [Andrews and Andrews 1980]

Geology, climatology, freshwater

ANDREWS, J.T. 1972. Recent and fossil growth rates of marine bivalves, Canadian Arctic, and Late-Quaternary Arctic marine environments. Palaeogeography, Palaeoclimatology, Palaeoecology, 11:157-176.

Growth rates of three marine bivalves--*Mytilus edulis*, *Serripes groenlandicum* and *Clinocardium ciliatum*--are used to elucidate Late-Quaternary marine conditions in the Canadian Arctic and Subarctic. Fossil growth rates are analyzed for a 6,000- and 8,500-year sequence from central Hudson Bay and east Baffin Island. [Andrews and Andrews 1980]

Geology, climatology, marine environment

ANDREWS, J.T. 1973a. Maps of the maximum postglacial marine limit and rebound for the former Laurentide Ice Sheet. Arctic and Alpine Research, 5:41-48.

Geology

ANDREWS, J.T. 1973b. Quantitative analysis of the factors controlling the distribution of corrie glaciers in Okoa Bay, east Baffin Island: (with particular reference to global radiation). In Quantitative geomorphology: some aspects and applications. Edited by M. Morisawa. Publications in Geomorphology, State University of New York, Binghamton, New York. pp. 223-241.

Two quantitative methods are used to study the state of glacierization of corries in Okoa Bay. The first discusses various glaciological, climatological measures and the second involves an analysis of the importance of global radiation on present glacier distribution.

Geology, climatology, Auyuittuq

ANDREWS, J.T. 1975. Radiocarbon date list II from Cumberland Peninsula, Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 7:77-91.

Forty-two radiocarbon dates on marine shells, bone, peats, buried soils, and marine algae from sites between southern Cumberland Peninsula and Cape Hooper are reported. A map of site locations is included. [Andrews and Andrews 1980]

Soils, geology, flora, climatology, Auyuittuq

ANDREWS, J.T. 1976a. Radiocarbon date list III, Baffin Island, N.W.T., Canada. Institute of Arctic and Alpine Research, Occasional Paper 21. University of Colorado, Boulder, Colorado. 47 pp.

Eighty-five new radiocarbon dates are described and located for the coast of east Baffin Island between latitudes 66° and 72°N. The locations are clustered in Cumberland Peninsula and in the area between Cape Henry Kater, Clyde Fiord, and Scott Inlet. The greatest number of samples are on buried soils and/or peats. [Andrews and Andrews 1980]

Soils, climatology, Auyuittuq

ANDREWS, J.T. 1976b. University of Colorado: 1975 field season on Baffin Island. Arctic, 29:168.

Description of eight geological studies conducted by staff and students near Pangnirtung, Cape Dyer, and Broughton Island.

Geology, Auyuittuq

ANDREWS, J.T. 1977a. Inferred climates of the last interglacial and early Wisconsin glaciation, Baffin Island, N.W.T., Canada: biostratigraphic evidence. In 10th International Association on Quaternary Research Congress Abstracts. p. 16.

Discusses the inferred climates of the last interglacial based on a study of the buried soils, organic-rich sediments, and raised marine sediments from the east coast of Baffin Island.

Geology, climatology, soils

ANDREWS, J.T. 1977b. Installation of a glaciology mass balance stations network in Auyuittuq National Park. Unpublished report to Prairie Region Office of Parks Canada, Winnipeg, Manitoba.

Geology, climatology, Auyuittuq

ANDREWS, J.T. 1977c. Radiation and temperature data from the Auyuittuq National Park - summer 1977. Unpublished report to Parks Canada, Prairie Region, Winnipeg, Manitoba.

Climatology, Auyuittuq

ANDREWS, J.T. 1977d. Status of Late Quaternary correlation ($\leq$125,000 BP) along the eastern Canadian seaboard - latitude 45°N to 82°N. In International Geological Correlation Programme: Quaternary glaciations in the Northern Hemisphere, 1976, Stuttgart, Federal Republic of Germany. Project 73/1/24, Report Number 4. pp. 180-197.

Fourteen syntheses of the Late Quaternary glacial history of the eastern seaboard of Canada between latitudes 45°N to 82°N are discussed.

Climatology, geology

ANDREWS, J.T. 1977e. University of Colorado 1976 field season in eastern Baffin Island. Arctic, 30:122-123.

Description of geological studies conducted at Broughton Island, Cape Dyer and Sunneshine Fiord, Northern Hall and Cumberland Peninsula during the 1976 field season.

Geology, climatology, Auyuittuq

ANDREWS, J.T. (Editor). 1985. Quaternary environments: Eastern Arctic, Baffin Bay, Western Greenland. Allen and Unwin, Winchester, Massachusetts. 774 pp.

A consolidation of the research concerning the Quaternary history of the eastern Canadian Arctic and related studies. Areas of discussion include: an introduction to Quaternary studies and present environment, glacial landforms and sediments, Quaternary paleoceonographic and ice core records, Pleistocene glacial and non-glacial stratigraphy, and Holocene sea levels and climate.

Geology, climatology, marine environment

ANDREWS, J.T., and R.G. BARRY. 1971. University of Colorado: 1970 summer field season in east Baffin Island. Arctic, 24:144-145.

Short summary of results of glacial studies conducted in Narpaing Fiord and Okoa Bay during the summer of 1970.

Geology, climatology, Auyuittuq

ANDREWS, J.T., and R.G. BARRY. 1972a. Present and palaeoclimatic influences on the glacierization and deglacierization of Cumberland Peninsula, Baffin Island, N.W.T., Canada. Institute of Arctic and Alpine Research, Occasional Paper Number 2. University of Colorado, Boulder, Colorado.

The research attempts an integrated analysis of the past and present climates of the northern Cumberland Peninsula with attention focused on the links between glacier distribution and fluctuations, and the climate. The final objective of the research is to attempt to model the palaeoclimate of the region during the late Quaternary. [Andrews and Andrews 1980]

Climatology, geology, Auyuittuq

ANDREWS, J.T., and R.G. BARRY. 1972b. University of Colorado: 1971 summer field season in east Baffin Island. Arctic, 25:64-65.

Short summary of glacial studies conducted in the summer of 1971 on local ice caps and valley glaciers in the Maktak Fiord, Nedlukseak Fiord, Okoa Bay areas, and the Boas Glacier. Includes a description of climatological studies conducted in the Broughton Island area.

Geology, climatology, Auyuittuq

ANDREWS, J.T., R.G. BARRY, R.S. BRADLEY, G.H. MILLER, and L.D. WILLIAMS. 1972. Past and present glaciological responses to climate in eastern Baffin Island. Quaternary Research, 2:303-314.

Outlines the glacial chronology for the Narpaing/Broughton Island area and outlines past and present snowlines for parts of Cumberland Peninsula--it discusses the climatic sensitivity of the area. [Andrews and Dyke 1974]

Geology, climatology, Auyuittuq

ANDREWS, J.T., R.G. BARRY, and L. DRAPIER. 1969. Past and present glacierization in two areas of east Baffin Island, N.W.T., Canada, and some palaeoclimatic implications. VIII Congres INQUA, Paris, 1969, Resumes des Communications (abstract in French). pp. 141.

Geology, climatology

ANDREWS, J.T., R.G. BARRY, and L. DRAPIER. 1970. An inventory of the present and past glacierization of Home Bay and Okoa Bay, east Baffin Island, N.W.T., Canada, and some climatic and palaeoclimatic considerations. Journal of Glaciology, 9:337-362.

An air-photograph inventory of the present glacierization of areas of east Baffin Island adjoining Home Bay and Okoa Bay is described. Climatic parameters and synoptic-climatological results are considered. [Andrews and Andrews 1980]

Geology, climatology, Auyuittuq

ANDREWS, J.T., R.G. BARRY, and J.D. JACOBS. 1973.
University of Colorado: 1972 field season in eastern Baffin Island. Arctic, 27:243-244.

Short description of Quaternary geology and geomorphic processes in Auyuittuq. Includes a brief summary of the 1973 ablation year of the Boas Glacier and a description of the climatological studies completed in relation to the fast-ice of Home Bay.

Geology, climatology, Auyuittuq

ANDREWS, J.T., R.G. BARRY, J.D. JACOBS, and H. NICHOLS. 1975.
Institute of Arctic and Alpine Research--eastern Canadian program. Arctic Bulletin, 1:200-207.

Discusses the interdisciplinary research projects of the Institute of Arctic and Alpine Research at Cumberland Peninsula. Summarizes results and objectives of the main areas of research including a study of Quaternary glacial chronology and glacio-isostatic movements, a study of the current mass and energy balance of a glacier, and an investigation into the paleoclimatology and paleoglaciology of the northern half of Cumberland Peninsula.

General, climatology, geology, sea ice, flora, Auyuittuq

ANDREWS, J.T., R.G. BARRY, and R.L. WEAVER. 1975. University of Colorado: 1974 field season in eastern Baffin Island. Arctic, 28:145-146.

Briefly describes some of the activities undertaken by the University of Colorado staff during the summer of 1974 on Baffin Island, including the mapping of the southern region of the Park. Some preliminary results of the climatological, glacial, geological, and botanical studies are presented. [Masterton and Findlay 1976]

Climatology, geology, flora, Auyuittuq

ANDREWS, J.T., J.T. BUCKLEY, and J.H. ENGLAND. 1970. Late-glacial chronology and glacio-isostatic recovery, Home Bay, east Baffin Island, Canada. Geological Society of America Bulletin, 81:1123-1148.

A late-glacial chronology was developed on the basis of 32 radiocarbon dates and morphostratigraphic evidence. The similarity of observed and predicted postglacial emergence curves enabled development of techniques that provided age estimates of marine limits throughout the area, and allowed construction of an isochron map for deglaciation. [Andrews and Andrews 1980]

Geology, climatology, Auyuittuq

ANDREWS, J.T., P.T. DAVIS, L. GLASSGOLD, and H. NICHOLS. 1979. Late Holocene July temperatures from Ennadai Lake (Keewatin) and Windy Lake (Baffin Island), Arctic Canada, based on transfer function equations on fossil peats. Geological Society of America, Abstracts with Programs, 11:379-380.

Transfer function equations are applied to fossil peats from sites in the Keewatin and on Baffin Island. In this way, pollen spectra in the peats can be interpreted as climatic records.

Climatology, Auyuittuq

ANDREWS, J.T., P.T. DAVIS, W.N. MODE, H. NICHOLS, and S.K. SHORT. 1981. Relative departures in July temperatures in northern Canada for the past 6000 years. Nature, 289:164-167.

Reports on the application of transfer function equations to nine middle and late Holocene peat and lake sediment sequences from several sites on northern mainland Canada and the arctic archipelago. In this way, pollen spectra in the peats and lake sediments can be interpreted as climatic records. One major collection site was located at Windy Lake.

Climatology, flora, Auyuittuq

ANDREWS, J.T., and H.F. DIAZ. 1981. Eigenvector analysis of reconstructed Holocene July temperature departures over northern Canada. Quaternary Research, 16:373-389.

Compares two data sets to gain an understanding of atmospheric circulation over northern North America during a mid late Holocene local thermal maximum. The first data set consists of 91 temperature series from weather stations between

Greenland and Alaska. The second data set is a series of reconstructed temperature estimates based on transfer functions in association with a pollen spectra. Includes fossil pollen data from Iglutalik Lake, Windy Lake and Patricia Bay on Baffin Island.

Climatology

ANDREWS, J.T., and R.E. DUGDALE. 1971a. Factors affecting corrie glacierization in Okoa Bay region, east Baffin Island, Canadian Arctic. Geological Society of America, Abstracts with Programs, 3:253.

Geology, climatology, Auyuittuq

ANDREWS, J.T., and R.E. DUGDALE. 1971b. Quaternary history of northern Cumberland Peninsula, Baffin Island, N.W.T. Part V: Factors affecting corrie glacierization in Okoa Bay. Quaternary Research, 1:532-551.

Describes the morphology of 165 corries from the Okoa Bay map sheet and compares the differences between ice-filled and ice-free corries. Elevation difference between the two sets is only 200 m. The climatic implications of this are discussed.

Geology, climatology, Auyuittuq

ANDREWS, J.T., and A.S. DYKE. 1974. A geomorphological - geological inventory and interpretation of Baffin Island National Park and surrounding area. Final Report to Applied Research Division, Parks Canada, Department of Indian and Northern Affairs, Ottawa, Ontario, Contract 73-66.

A comprehensive account of the geologic and geomorphic phenomena, based on field research and previously published works. Physiographic regions are delimited; surficial geology and landforms mapped and described; Quaternary history, glacial chronology, climatic change and crustal movements documented and explained. Geologically sensitive and/or hazardous phenomena are discussed and suggestions given for planning and research. [Andrews and Andrews 1980]

Geology, climatology, Auyuittuq

ANDREWS, J.T., A.S. DYKE, D. ISHERWOOD, G.H. MILLER, and R.L. WEAVER. 1973. Geomorphological investigations of Baffin Island National Park - summary of field research and findings. Unpublished report to Applied Research Division, Parks Canada, Department of Indian and Northern Affairs. 62 pp.

An initial account of the research program and results for the 1973 field season in Baffin Island National Park. The report deals with logistics of park visitation, transport to and within the park, and gives a brief summary of research findings on glacial history, marine limits, soils, and glacier mass balance in a series of reports by individual scientists. [Andrews and Andrews 1980]

General, geology, climatology, marine environment, soils, freshwater

ANDREWS, J.T., R.W. FEYLING-HANSSEN, G.H. MILLER, C. SCHLUCHTER, M. STUIVER, and B.J. SZABO. 1976. Alternative models of early and middle Wisconsin events, Broughton Island, Northwest Territories, Canada: Toward a Quaternary chronology. In Quaternary Glaciations in the Northern Hemisphere. Edited by D.J. Easterbrook and J. Sibrava. IUGS-UNESCO International Geological Correlation Program Project 73-1-24, Report Number 3. pp. 28-61.

Geology

ANDREWS, J.T., S. FUNDER, C. HJORT, and J. IMBRIE. 1974. Comparison of the glacial chronology of eastern Baffin Island, East Greenland, and the Camp Century accumulation record. Geology, 2:355-358.

Presents further argument in support of the theory that the glacial chronologies of east Greenland, eastern Baffin Island, and the Canadian Arctic in general show similar glaciologic trends that are different from the Laurentide and Fennoscandian Ice Sheets.

Geology, Auyuittuq

ANDREWS, J.T., P.E. HARE, W. ISHERWOOD, D.R. PHEASANT, and B. SZABO. 1973. Location, extent, nature, and age of raised marine deposits in eastern Baffin Island, N.W.T. >20,000 BP. In Symposium on the Geology of the Canadian

Arctic, May 23-26, 1973, University of Saskatchewan, Saskatoon, Saskatchewan, Programs and Abstracts. p. 2.

Geology

ANDREWS, J.T., J.C. HARRISON, G.H. MILLER, and A.S. DYKE. 1973. Annual report of the National Science Foundation (Grant GA-20883): glacio-isostatic recovery of certain fiords in east Baffin Island, N.W.T., Canada. Institute of Arctic and Alpine Research, University of Colorado, Boulder, Colorado. 31 pp.

Reports on field work conducted during 1972 by Miller in the Kangetokjuak and Kangetogusikrukuk fiords, and Church on the Maktak sandur; together with a listing of theses and papers completed or in preparation related to this contract. Also presents initial results of a geophysical modelling study by Harrison and Andrews. [Andrews and Andrews 1980]

Geology, general, Auyuittuq

ANDREWS, J.T., and J.D. IVES. 1972. Late- and post-glacial events (<10,000 BP) in the eastern Canadian Arctic with particular reference to the Cockburn Moraines and break-up of the Laurentide Ice Sheet. In Climatic changes in arctic areas during the last ten-thousand years. Edited by Y. Vasari, H. Hyvarinen, and S. Hicks. Acta Universitatis Ouluensis, Series A, Scientiae Rerum Naturalium Number 3, Geologica Number 1. pp. 149-174.

The Cockburn Moraines (morpho-stratigraphic term) of the Canadian Arctic are discussed in terms of their climatic implications at two levels: the first is their place in the late-glacial chronology of eastern Baffin Island, N.W.T.; the second is their relationship on the regional scale to the final disintegration of the Laurentide Ice Sheet and the Cochrane readvance, south of James Bay. [Andrews and Andrews 1980]

Geology, climatology

ANDREWS, J.T., and J.D. IVES. 1978. "Cockburn" nomenclature and the late Quaternary history of the eastern Canadian Arctic. Arctic and Alpine Research, 10:617-633.

There is an ambiguity in present usage of the name "Cockburn" that has developed over the last 15 years as knowledge of the glacial morphology and stratigraphy of the eastern Canadian Arctic has expanded. In this paper, an attempt is made to reduce this ambiguity by preparing new definitions. [Andrews and Andrews 1980]

Geology

ANDREWS, J.T., and J.D. JACOBS. 1974. University of Colorado: 1973 field season in eastern Baffin Island. Arctic, 27:243-244.

Short description of some of the activities of the staff and students from the University of Colorado during the summer of 1973 on eastern Baffin Island. Presents preliminary results of the Quaternary geology, geomorphic process, climatological and glacial studies undertaken within Auyuittuq National Park and area.

Geology, climatology, Auyuittuq

ANDREWS, J.T., A.I. MEARS, G.H. MILLER, and D.R. PHEASANT. 1972. Holocene late glacial maximum and marine transgression in the eastern Canadian Arctic. Nature Physical Science, 239:147-149.

Presents C^{14} dates from northern Cumberland Peninsula and discusses the evidence in favour of a late glacial maximum in east Baffin Island dated ca. 8000 BP. [Andrews and Andrews 1980]

Geology

ANDREWS, J.T., and G.H. MILLER. 1972a. Chemical weathering of tills and surficial deposits in east Baffin Island, N.W.T., Canada. In International Geography 1972. Edited by W.P. Adams and F.M. Helleiner. University of Toronto Press, Toronto, Ontario. Volume I. pp. 5-7.

Discusses chemical weathering of tills and the idea that multiple glaciations can be recognized on the basis of differences in the weathering of surficial deposits. Includes a description of three broad weathering zones.

Geology, soils, climatology

ANDREWS, J.T., and G.H. MILLER. 1972b. Quaternary history of northern Cumberland Peninsula, Baffin Island, N.W.T., Canada. Part IV: Maps of the present glaciation limits and lowest equilibrium line altitude for north and south Baffin Island. Arctic and Alpine Research, 4:45-59.

Maps of the glaciation limit and lowest equilibrium line altitude (ELA) are presented for southern and northern Baffin Island and their preparation is described. The report contains a detailed analysis of the data as well as comparisons with results from other regions. [Andrews and Andrews 1980]

Geology, climatology

ANDREWS, J.T., and G.H. MILLER. 1972c. Quaternary history of northern Cumberland Peninsula, east Baffin Island, N.W.T. Part X: Radiocarbon date list. Arctic and Alpine Research, 4:261-277.

The ages and geological significance of deposits from fifty-two sites on Cumberland Peninsula are discussed.

Geology, Auyuittuq

ANDREWS, J.T., and G.H. MILLER. 1976. Quaternary glacial chronology of the eastern Canadian Arctic: a review and a contribution on amino acid dating of Quaternary molluscs from the Clyde Cliffs. In Quaternary stratigraphy of North America. Edited by W.C. Mahaney. Dowden, Hutchinson, and Ross, Stroudsberg, Pennsylvania. pp. 1-32.

Reviews the Quaternary glacial chronology of the eastern Canadian Arctic and discusses the approaches on which Quaternary stratigraphy and glacial chronology are based. Illustrates the use of amino acid diagenesis as a dating tool.

Geology, climatology

ANDREWS, J.T., and G.H. MILLER. 1979. Climatic change over the last 1000 years, Baffin Island, N.W.T. In Thule Eskimo culture: an anthropological retrospective. Edited by A.P. McCartney. National Museum of Man, Mercury Series. Archaeological Survey of Canada Paper Number 88. pp. 541-554.

Problems faced in establishing a geologic-climate stratigraphy (based on lichen-dated substrates) for Baffin Island over the last 1000 years are discussed. A summary of the available glacial chronology is presented in brief form.

Geology, climatology, flora

ANDREWS, J.T., G.H. MILLER, A.R. NELSON, W.N. MODE, and W.W. LOCKE III. 1981. Quaternary near-shore environments,on eastern Baffin Island, N.W.T. In Quaternary Paleoclimate. Edited by W.C. Mahaney. Geo Books, Norwich, England. pp. 13-44.

Presents data in support of the rationale that glacial and "climatic" events are interpretations of the litho- and biostratigraphic descriptive units. A study of the distribution of subarctic marine molluscs in raised marine sediments is used to document the association of extensive glaciation on Baffin Island with periods of "warm" subarctic water.

Climatology, geology, marine environment, fauna

ANDREWS, J.T., W.N. MODE, and P.T. DAVIS. 1980. Holocene climate based on pollen transfer functions, eastern Canadian Arctic. Arctic and Alpine Research, 12:41-64.

Regression models are used to show the statistical association between percentages of 19 pollen taxa and climatic variables along a transect from Clyde River to Fort Chimo. An additional 69 surface samples from Fort Chimo, Iqaluit, Pangnirtung, Broughton Island and Clyde River are examined.

Climatology, flora, Auyuittuq

ANDREWS, J.T., W.N. MODE, P.J. WEBER, G.H. MILLER, and J.D. JACOBS. 1980. Report on the distribution of dwarf birches and present pollen rain, Baffin Island, N.W.T., Canada. Arctic, 33:50-58.

Reports on the occurrence of dwarf birch on Baffin Island and comments on the modern pollen fallout of Betula pollen at sites close to, and far distant from, present dwarf shrubs.

Flora, geology, Auyuittuq

ANDREWS, J.T., and H. NICHOLS. 1981. Modern pollen deposition and Holocene paleotemperature reconstructions, central northern Canada. Arctic and Alpine Research, 13:387-408.

The relative modern pollen spectra is reported for a transect from the edge of the boreal forest of Keewatin to the high arctic/polar desert tundra of eastern Baffin Island and 4 geographic pollen assemblage regions are defined. Transfer function equations are constructed and used to predict July temperatures, and a generalized reconstruction of the July temperature history is made.

Climatology, flora, geology

ANDREWS, J.T., R. STUCKENRATH, H. NICHOLS, and G.H. MILLER. 1974. Radiocarbon dates and pollen analysis for the Baffin Island National Park. Report to Parks Canada, Quebec Region, Contract 73-66. 32 pp.

Geology, climatology, flora, Auyuittuq

ANDREWS, J.T., B.J. SZABO, and W. ISHERWOOD. 1975. Multiple tills, radiometric ages and assessment of the Wisconsin glaciation in eastern Baffin Island, N.W.T., Canada: a progress report. Arctic and Alpine Research, 7:39-60.

Between Narpaing and Quajon fiords, wavecut cliffs expose three glacial and three marine units. Includes a description and radiometric dating for each unit. Discusses the general applicability of the local glacial chronology elsewhere along the northeastern margin of the Laurentide ice sheet, at least as a model for further testing and refinement.

Geology, Auyuittuq

ANDREWS, J.T., P.J. WEBBER, and H. NICHOLS. 1979. A late Holocene pollen diagram from Pangnirtung Pass, Baffin Island, N.W.T., Canada. Review of Palaeobotany and Palynology, 27:1-28.

A 1.2 m section of organic-rich sediment from near Windy Lake, in Pangnirtung Pass is dated by twelve radiocarbon assays. The section is described in terms of the lithology of the inorganic matrix, in the plant growth form and moisture preference of the pollen taxa, and in the variations in the influx of exotic pollen (Alnus, Picea, and Pinus).

Geology, climatology, flora, Auyuittuq

ANDREWS, M. (Compiler). 1975. List of publications of the Institute of Arctic and Alpine Research 1967-1974. Unpublished report, Institute of Arctic and Alpine Research, University of Colorado, Boulder, Colorado. Mimeographed. 45 pp.

Lists publications written as a result of the authors' collaboration with the Institute of Arctic and Alpine Research from 1967-1974. Contains references associated with research in arctic and alpine environments worldwide, especially in the Colorado Rocky Mountains, Alaska, and the Canadian Arctic and related paleoenvironments.

General, Auyuittuq

ANDREWS, M. (Compiler). 1986. List of publications 1968-1985: Institute of Arctic and Alpine Research. Institute of Arctic and Alpine Research Occasional Paper 42. University of Colorado, Boulder, Colorado. 97 pp.

Lists the 900 publications written as a result of the authors' collaboration with the Institute of Arctic and Alpine Research from 1968-1985. Contains references associated with research in arctic and alpine environments worldwide, especially in the Colorado Rocky Mountains, Alaska, and the Canadian Arctic and related palaeoenvironments.

General, Auyuittuq

ANDREWS, M., and J.T. ANDREWS. 1979. Bibliography of Baffin Island environments over the last 1000 years. In Thule Eskimo Culture: an anthropological retrospective. Edited by A.P. McCartney. National Museum of Man, Mercury Series, Archaeological Survey of Canada Paper Number 88. Ottawa, Ontario. pp. 555-569.

This bibliography is presented as a contribution to studies of the environment of the Thule people which may be of interest to archaeologists reconstructing the Thule way of life. A major portion of the references are associated with the Cumberland Peninsula and north-central Baffin Island.

Human history, climatology, geology, sea ice, Auyuittuq

ANDREWS, M., and J.T. ANDREWS. 1980. Baffin Island Quaternary environments: an annotated bibliography. Institute of Arctic and Alpine Research Occasional Paper 33. University of Colorado, Boulder, Colorado. 123 pp.

Over 460 references are presented. They are arranged according to 13 specific subject categories covering the broad subject area of the Quaternary environment of Baffin Island, Canada.

General, geology, soils, climatology, sea ice, flora, Auyuittuq

ANINGMIUQ, P. 1983. Summary of Auyuittuq National Park Reserve Wildlife Cards. Unpublished report, Parks Canada, Pangnirtung, Northwest Territories. 19 pp.

A summary of observations (mainly numbers and locations) of selected wildlife species made by park wardens.

Fauna, Auyuittuq

ANONYMOUS. no date. Baffin Island National Park map. Park News, 8:36.

Popular, general, Auyuittuq

ANONYMOUS. 1953. Baffin Expedition 1953. Arctic, 6:163-164.

Contains a preliminary note on the Arctic Institute of North America expedition (in cooperation with the Swiss Foundation for Alpine Research) to the Cumberland Peninsula of Baffin Island. [Andrews and Andrews 1980]

General, Auyuittuq

ANONYMOUS. 1972. Baffin Island National Park. Arctic Circular, 22:27-29.

General introduction to the physical characteristics of Auyuittuq. Includes major animal and bird species.

General, popular, Auyuittuq, flora, fauna

ANONYMOUS. 1973. Parc National Ile Baffin. / Baffin Island National Park. Unpublished report. 4 pp. (French), 5 pp. (English).

General description of the park followed by brief discussions on tourism, conservation, development.

General, Auyuittuq

ANONYMOUS. 1974. Pangnirtung has first National Park north of the Arctic Circle on Baffin Island. News of the North, 26 June 1974. p. 9.

Popular, Auyuittuq

ANONYMOUS. 1975a. "The place which does not melt". Dialogue North, 4-75:11-12. (Special Issue: Minister's tour)

Brief introduction to the main physical features and attractions of Auyuittuq. In English and Inuktitut.

Popular, general, Auyuittuq

ANONYMOUS. 1975b. Auyuittuq - Minister stresses local involvement. Dialogue North, 4-75:7-10. (Special Issue: Minister's tour)

Address by DIAND Minister Judd Buchanan at the park opening. He discusses the involvement of local people in the management and development of the park and the economic benefits that will come from the creation of the park.

General, Auyuittuq

ANONYMOUS. 1975c. Broughton residents oppose offshore seismic. Dialogue North, 3-75:8-19.

Summary of events of a meeting between the Broughton Island Inuit Council, Shell Oil representatives, and the federal government concerning seismic operations off the coast of Baffin Island. The main concern was the possible effects of an oil spill should drilling occur.

Marine environment, fauna, environmental impact

ARCTIC INSTITUTE OF NORTH AMERICA. 1953-1975. Arctic bibliography. Volumes 1-14 edited by M. Tremaine. Volumes 15-16 edited by M. Martna. Volumes 1-11 published in conjunction with Department of Defence, Washinton, DC, 1953-1963. Volume 12 published in conjuction with Superintendent of Documents, 1965. Volume 13 published in conjunction with McGill University Press, Montreal, Quebec, 1967. Volumes 14-16 published in conjunction with McGill-Queen's University Press, 1968-1975.

Annotated record of publications resulting from exploration and scientific investigation of northern regions. Includes the fields of science, technology and the arts. Arranged in 2 sections: an alphabetic register under the author's name; and a subject-geographic index.

General

ASSELIN, R. 1977. Climatologie et analyse des glaces des mers de l'hemisphere nord. / Northern hemisphere sea ice climate and analysis. Environnement Canada, Service de l'Environnement Atmospherique, Division de Recherche en Prevision Numerique Notes Scientifiques et Techniques Numero 3. Dorval, Quebec. 18 pp.

Describes climatological sea ice maps for the northern hemisphere produced from two sources. Includes information on the percentage of ice cover (monthly) of any thickness, current ice cover, and a description of computer program formats for daily ice cover and ice climatology data.

Sea ice, marine environment, climatology

BACHMAN, B. 1975. That's the way I like to remember Baffin Island. North, 22(6):22-31.

Account of an expedition on foot from the North Pangnirtung Fiord following the Owl and Weasel Rivers into a fiord on the south coast of the Cumberland Peninsula. Includes notes on terrain, wildlife, and climate.

Popular, general, Auyuittuq

BAIRD, P.D. no date. Bird list of Baffin Island National Park and vicinity. Unpublished report to Parks Canada, Quebec Region. 2 pp.

A list of bird species occurring in or near Auyuittuq.

Fauna, Auyuittuq

BAIRD, P.D. 1952. La Terra di Baffin. / Baffin Island. Vie del Mondo, 14:1189-1200.

Contains information on the early exploration of the island; its physiography, geology, vegetation and more common higher plants; common mammals and birds; marine mammals; whaling, past and present; administration; recent exploration; population; climate; mineral resources. [Arctic Institute of North America 1955]

General

BAIRD, P.D. 1954. Cumberland Peninsula of Baffin Island. Canadian Geographical Journal, 48:88-97.

Contains general chronological account of the Baffin Island Expedition of the Arctic Institute of North America, May-September 1953. Glaciological, geomorphological, geological, geophysical, meteorological, botanical, and zoological work was carried out on and southeast of the Penny Ice Cap. [Andrews and Andrews 1980]

General, geology, flora, fauna, Auyuittuq

BAIRD, P.D. 1955. Glaciological research in the Canadian Arctic. Arctic, 8:96-108.

Incidental ice observations prior to, and glaciological work after, 1945 are reviewed, and some results given of the latter. General appearance and budgetary state of Canadian Arctic glaciers are noted, with suggestions of future glaciological, geomorphological, and bathymetrical problems. [Andrews and Andrews 1980]

Geology

BAIRD, P.D. 1966. Mountain climbing in the Arctic. North, 13(4):51-56.

Very briefly discusses climbing in the range of peaks which extends for 700 miles along the east coast of Cumberland Peninsula to Bylot Island.

Popular, general

BAIRD, P.D. 1967. Baffin Island. Beaver, Outfit 297 (Spring):20-33.

Gives an account of the climate, wildlife and geological aspects of the land as well as its human history. Baird then divides Baffin Island into several regions, one being the Cumberland Sound, and sketches the history of white contact with the native people in each area and its effect upon their manner of life. [A.D. Revill Associates 1975]

General, climatology, fauna, geology, human history

BAIRD, P.D. 1972. Basic background data on the area of Baffin Island National Park. Report to National and Historic Parks Branch, Parks Canada, Department of Indian Affairs and Northern Development, Contract 72-14. 21 pp.

Brief description of methods of park access, travel, and recreational activities.

General, Auyuittuq

BAIRD, P.D. 1976. The land that never melts. North, 23(6):38-42.

Contains information on reaching and travelling through the park. Includes tips for hikers, campers and mountaineers, and discusses some of the attractions. Part 1 of a 6-part series on Auyuittuq condensed from WILSON 1976.

General, Auyuittuq, popular

BAIRD, P.D. 1977a. Auyuittuq's flowering plants. North, 24(4):12-19.

Description and photos of most of the common plants found in the park. Useful aid for identification. Part 5 of a 6-part series on Auyuittuq condensed from WILSON 1976.

Flora, Auyuittuq, popular

BAIRD, P.D. 1977b. Birds of Auyuittuq. North, 24(5):54-64.

Description and illustrations of most birds likely to be seen in Auyuittuq. Useful aid for identification. Part 6 of a 6-part series on Auyuittuq condensed from WILSON 1976.

Fauna, Auyuittuq, popular

BAIRD, P.D. 1977c. The living landscape. North, 24(3):14-19.

Brief discussion of the climate and its effect on the plant and animal life in Auyuittuq. Includes a species list of the common terrestrial and marine mammals. Part 4 of a 6-part series on Auyuittuq condensed from WILSON 1976.

Climatology, flora, fauna, Auyuittuq, popular

BAIRD, P.D., B.H. BONNLANDER, D.J. KIDD, J. MARMET, S. ORVIG, H. ROTHLISBERGER, F.H. SCHWARZENBACH, H.R. THOMPSON, W.H. WARD, A. WATSON, and J.R. WEBER. 1953. Baffin Island Expedition 1953: a preliminary field report. Arctic, 6:226-251.

Contains description and brief summaries of results of the second Baffin Island Expedition of the Arctic Institute of North America, May-September 1953. Includes discussions of glacier physics, seismic soundings, meteorology, geology, geomorphology, zoology, botany, mountaineering and surveying, and photography.

General, geology, climatology, flora, fauna, Auyuittuq

BAIRD, P.D., D.C. MORTON, and G.F. WEETMAN. 1964. Alpine Club of Canada Baffin Island camp, 1963. Canadian Alpine Journal, 47:1-15.

Contains 3 articles: 1) account of an expedition in the Pangnirtung Pass region including the ascents of 25 peaks, 2) a description of the ascent of Mount Asgard, and 3) a description of the ascent of Mount Turnweather.

General, popular

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BAIRD, P.D., and J.L. ROBINSON. 1945. A brief history of exploration and research in the Canadian eastern Arctic. Canadian Geographical Journal, 30:137-157.

A review of earlier explorations and scientific research in the Arctic.

General, geology, climatology, marine environment, fauna, flora

BAIRD, P.D., H. ROTHLISBERGER, J. MARMET, and F.H. SCHWARZENBACH. 1954. Baffin Island Expedition, 1953. In The mountain world. Allen Unwin, London. pp. 147-168. Also published in German as: Die Baffin-Island-Expedition 1953. Berge der Welt, 1953/54:145-165.

Summarizes specific findings of the 1953 expedition to the Pangnirtung Pass area. The chief task was to take soundings on the large Highway Glacier. Several mountains on the Cumberland Peninsula are described. Characteristics of arctic plants are briefly discussed.

General, geology, flora, Auyuittuq

BAIRD, P.D., and H.R. THOMPSON. 1954. Canadian expedition to Baffin Island, 1953. Polar Record, 7:152-153.

A brief summary of the scientific expedition to Cumberland Peninsula in 1953.

General, Auyuittuq

BARRY, M. 1973. Les aspects genereaux du Parc National sur L'Ile de Baffin: rapport-synthese. Unpublished report, Parks Canada, Quebec Region. 10 pp.

A summary of the general features of Auyuittuq.

General, Auyuittuq

BARRY, R.G. 1972. Meteorology and climatology. In Present and paleo-climatic influences on the glacierization and deglacierization of Cumberland Peninsula, Baffin Island, N.W.T., Canada. Edited by J.T. Andrews, and R.G. Barry.

Institute of Arctic and Alpine Research Occasional Paper Number 2. University of Colorado, Boulder, Colorado. Section 3. 26 pp.

Meteorological data from six weather stations in the Boas Glacier area of Auyuittuq National Park Reserve are summarized.

Climatology, geology, Auyuittuq

BARRY, R.G. 1974. Further climatological studies of Baffin Island, Northwest Territories, Canada. Water Resources Branch Technical Bulletin Number 65. Inland Waters Directorate, Environment Canada, Ottawa, Ontario. 54 pp.

An analysis of the vapour flux divergence over Baffin Island and adjacent areas for January, April, July and October 1961-65. Includes a comparison of the aerological results with generalized estimates of precipitation minus evaporation.

Climatology

BARRY, R.G. 1977. Analogue and modelling studies of glacial inception. In 10th International Association on Quaternary Research Congress Abstracts. p. 29.

An examination of the climatic conditions that favoured inception of the Laurentide ice sheet.

Climatology, geology

BARRY, R.G., W.H. ARUNDALE, J.T. ANDREWS, R.S. BRADLEY, and H. NICHOLS. 1977. Environmental change and cultural change in the eastern Canadian Arctic during the last 5000 years. Arctic and Alpine Research, 9:193-210.

Presents a comparative review of paleoenvironmental and archaeological data.

Climatology, marine environment, human history

BARRY, R.G., R.S. BRADLEY, and J.D. JACOBS. 1975. Synoptic climatological studies of the Baffin Island area. In Climate of the Arctic. Edited by G. Weller and S.A. Bowling. Geophysical Institute, University of Alaska, Fairbanks, Alaska. pp. 82-90.

Examines the present and past glacierization of eastern Baffin Island in relation to climate.

Climatology, geology

BARRY, R.G., R.G. CRANE, C.W. LOCKE, W.W. LOCKE III, and G.H. MILLER. 1977. The coastal environment of southern Baffin Island and northern Labrador-Ungava. Unpublished report prepared by University of Colorado, Institute of Arctic and Alpine Research, Boulder, Colorado for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Calgary, Alberta. Arctic Petroleum Operators' Project Number 138. 159 pp.

The morphology and sediment characteristics of coastal areas (beach and intertidal zones) in Ungava Bay and around the Hall Peninsula were examined. The data collected were used to produce reconnaissance maps of the coastal environment of southeastern Baffin Island, Ungava Bay, and northern Labrador in order to assess the susceptibility of the coastal environment to possible contamination from marine oil slicks.

Geology, sea ice, marine environment

BARRY, R.G., D.L. ELLIOTT, and R.G. CRANE. 1981. The paleoclimatic interpretation of exotic pollen peaks in Holocene records from the eastern Canadian Arctic: a discussion. Review of Paleobotany and Palynology, 33:153-167.

The use of exotic pollen peaks as an indicator of paleowinds and warmer conditions is discussed. Topics requiring further study are listed. The pollen in question occurs in fossil peat in sediments deposited in the Windy Lake and Maktak Fiord area of Baffin Island.

Climatology, geology, flora, Auyuittuq

BARRY, R.G., and S. FORGARASI. 1968. Climatology studies of Baffin Island, Northwest Territories. Department of Energy, Mines and Resources, Inland Waters Branch Technical Bulletin Number 13. Ottawa, Ontario. 106 pp.

Reports the main results of September 1966 - June 1968 studies in a continuing investigation of the moisture sources for precipitation and synoptic climatology of events significant for snow accumulation/ablation. [Andrews and Andrews 1980]

Climatology

BARRY, R.G., J.D. JACOBS, R.G. CRANE, R.A. KEEN, R.E. MORITZ, E.F. LEDREW, and R.L. WEAVER. 1978. Energy budget studies in relation to fast-ice breakup processes in Davis Strait: climatological overview. Institute of Arctic and Alpine Research Occasional Paper 26. University of Colorado, Boulder, Colorado. 284 pp.

A study of the climatic factors affecting shorefast ice in western Davis Strait (Broughton Island) with emphasis on energy budgets. Contains sections on regional climatic setting, synoptic case studies, radiation studies, ice regime, microclimatology of the fast ice, and ice-climate interactions.

Climatology, sea ice

BELL, R. 1901. A survey in Baffinland, with a short description of the country. Geographical Journal, 18:25-46.

A general description of southern Baffin Island based on an expedition to the area.

General, geology, fauna, human history

BEST, R.C., and H.D. FISHER. 1974. Seasonal breeding of the narwhal (Monodon monoceros L.). Canadian Journal of Zoology, 52:429-431.

Discusses seasonal breeding and reproduction. Uses data gathered on body length of foetal and newborn narwhal to indicate a similar breeding pattern to the beluga.

Fauna, marine environment

BETHUNE, W.C. (Editor). 1935. Canada's Eastern Arctic: its history, resources, population and administration. King's Printer, Ottawa, Ontario. 166 pp.

Succinct history of Euro-Canadian activity (trading, whaling, government, missionary activities, and expeditions) in this area. Both physical characteristics and the wildlife are described. Accounts of various species, their ranges, habits, and migratory patterns are included. The Inuit of the Eastern Arctic, particularly the material aspects of their life, are also discussed. [A.D. Revill Associates 1975]

General, human history, fauna

BIRD, J.B. 1967. The physiography of arctic Canada, with special reference to the area south of Parry Channel. John Hopkins Press, Baltimore, Maryland. 336 pp.

A general reference on geological processes in arctic environments.

Geology, climatology, soils, flora, sea ice

BIRD, J.B. 1977a. A report on scientific field activity, Auyuittuq National Park - 1977. Unpublished report to Parks Canada. 1 p.

Geology, Auyuittuq

BIRD, J.B. 1977b. Coastal morphology and terrain studies, Kivitoo Peninsula, Baffin Island. Geological Survey of Canada Paper 77-1C. Ottawa, Ontario. pp. 53-55.

A brief visit was made in 1975 to the Kivitoo Peninsula, on the east coast of Baffin Island, to examine landform modification under periglacial conditions. Field studies were continued in summer 1976 and were concentrated on the geomorphic processes active along the coast and on the role of snow in terrain development. [Andrews and Andrews 1980]

Geology, freshwater, marine environment, sea ice, Auyuittuq

BIRKELAND, P.W. 1975. Soil development rates on tills in the Canadian Arctic compared with those in the mountains of the western USA. Geological Society of America, Abstracts with Programs, 7:1000.

Rates of soil development on tills were studied in the vicinity of Pangnirtung and Kingnait Fiords. Data collected was compared to soils in the mountains of the western United States.

Soils, geology

BIRKELAND, P.W. 1978. Soil development as an indication of relative age of Quaternary deposits, Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 10:733-747.

The problems and potential of using soils to subdivide and correlate Quaternary deposits in an arctic environment are discussed. Till-formed soils from Pangnirtung Fiord and the area of Kingnait Fiord, and marine deposits from Kingnait Fiord are studied. Data analyzed includes horizon thickness and degree of oxidation.

Geology, soils

BLACKADAR, R.G. 1967. Geological reconnaissance, southern Baffin Island, District of Franklin. Geological Survey of Canada Paper 66-47. Ottawa, Ontario. 32 pp.

Reports on Operation Amadjuak, planned in 1963 and completed in 1965, for geological investigation of Baffin Island south of 66°N. [Andrews and Andrews 1980]

Geology

BLAKE, W. JR. 1966. End moraines and deglaciation chronology in northern Canada, with special reference to southern Baffin Island. Geological Survey of Canada Paper 66-26. Ottawa, Ontario. 31 pp.

The distribution of end moraines in southern Baffin Island as mapped from air photographs is described, a tentative chronology for the deglaciation of this region is given, and Falconer's hypothesis that a late-Wisconsin ice sheet centered over Foxe Basin and Hudson Bay 9,500 - 8,000 years ago is examined.

Geology

BLOUIN, J.L., C. DESLOGES, et A. GUIMOND. 1975. Parc National Auyuittuq: classification bio-physique du Col de Pangnirtung. Departement des Affaires Indien et du Nord, Parcs Canada, Winnipeg, Manitoba. 2 Volumes. 385 pp. + 5 annexes.

See following entry for annotation.

Geology, soils, flora, environmental impact, Auyuittuq

BLOUIN, J.L., C. DESLOGES, and A. GUIMOND. 1975. Auyuittuq National Park: biophysical classification of Pangnirtung Pass. Applied Research Division, Parks Canada, Department of Indian and Northern Affairs, Prairie Region, Winnipeg, Manitoba. 3 volumes and maps. (translated into English in 1978 by Robert Russell) 371 pp.

Part I - THE BIOPHYSICAL FRAMEWORK - covers the information available on the Park resources and includes a discussion on present inventory methods.
Part II - METHODOLOGY - deals with the recommended biophysical inventory methodology.
Part III - RESULTS - presents the results obtained following application of the method in the Pangnirtung Pass pilot sector.
Part IV - CONCLUSIONS AND RECOMMENDATIONS - results are evaluated and an approach for completing the Auyuittuq national Park resources inventory is suggested.

Geology, soils, flora, environmental impact, Auyuittuq

BOAS, F. 1884a. A journey in Cumberland Sound and on the west shore of Davis Strait in 1883 and 1884. American Geographical Society Journal, 16:242-272.

Contains a resume of previous explorations in the Baffin Island region, and an account of Boas's sojourn among the Inuit there and his trips for geographical and ethnological observations. [Arctic Institute of North America 1953]

General, human history

BOAS, F. 1884b. Baffin-Land, Geographische Ergebnisse einer in den Jahren 1883 und 1884 ausgefuhrten Forschungsreise./

Baffin Land, geographical results of an exploratory journey made in the years 1883 and 1884. Petermanns Mitteilungen. (Gotha), Erganzungsheft, 80:1-100.

Contains an account of Boas' journeys and discoveries, his geographical observations and survey, an outline of the distribution of Eskimo tribes and settlements in Cumberland Peninsula and the coastal regions of Baffin Island. [A.D. Revill Associates 1975]

General, human history

BOAS, F. 1885. Cumberland Sound and its Eskimos. Popular Science Monthly, 26:768-779.

Translated and reprinted from articles in Berliner Tageblatt. [Arctic Institute of North America 1953]

General, human history

BOAS, F. 1887. The geography and geology of Baffin Land. Royal Society of Canada, Proceedings and Transactions, 4:75-78.

Based on early explorations in the Cumberland Sound area. Geological and geographical information is presented.

Geology, general

BOCKHEIM, J.G. 1975. Soils of Cumberland Peninsula, Baffin Island, N.W.T., Canada. Report to Applied Research Division, Parks Canada, Department of Indian and Northern Affairs, Ottawa, Ontario, Contract 74-112. 107 pp.

Identifies soil types found on the Cumberland Peninsula. Addresses problems associated with the use of soils as weathering indicators on eastern Baffin Island. Includes an impact evaluation of flora, fauna and man on soil formation.

Soils, geology, environmental impact, Auyuittuq

BOCKHEIM, J.G. 1978. A comparison of the morphology and genesis of Arctic Brown and Alpine Brown soils in North

America. In Quaternary soils. Edited by W.C. Mahaney. Geo Abstracts, Norwich, England. pp. 427-452.

Arctic Brown and Alpine Brown soils are compared and contrasted by providing new data from two arctic and two alpine locations and by compiling data from North American literature. Study areas include Pangnirtung, Baffin Island; Cornwallis Island, N.W.T.; Saddleback Mountain, Maine; and Mount Baker, Washington.

Soils, geology, Auyuittuq

BOCKHEIM, J.G. 1979. Properties and relative age of soils of southwestern Cumberland Peninsula, Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 11:289-306.

On southwestern Cumberland Peninsula, Baffin Island, Minimal Podzol, Arctic Brown, and Tundra soils occur along moist fiords and Polar Desert soils occur in the more xeric uplands. The properties and relative age of soils are discussed. [Andrews and Andrews 1980]

Soils, geology, Auyuittuq

BOULTON, G.S., J.H. DICKSON, H. NICHOLS, M. NICHOLS, and S.K. SHORT. 1976. Late Holocene glacier fluctuations and vegetation changes at Maktak Fiord, Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 8:343-356.

An integrated study of glacial and glaciofluvial sediments, glacial tectonics, plant macrofossils, and palynology is used to present an environmental reconstruction of the glacier variations and local climate. The Neoglacial terminal moraine of the Maktak Glacier is studied.

Geology, flora, climatology, Auyuittuq

BOURQUE, A.L. 1975. Caribou observations, south Baffin Island, 1971-75. Unpublished report, Northwest Territories Department of Renewable Resources, Frobisher Bay, Northwest Territories.

Brief and general observations from 1 October 1971 to March 1975.

Fauna

BOYER, S.J. 1972. Pre-Wisconsin, Wisconsin, and Neoglacial ice limits in Maktak Fiord, Baffin Island: a statistical analysis. M.Sc. thesis, University of Colorado, Boulder, Colorado. 117 pp.

Contains detailed studies of surface rock weathering and delimits the extent of ice at different times in an area from Maktak and Coronation Fiords to the outer coast. [A.D. Revill Associates 1975]

Geology, Auyuittuq

BOYER, S.J., and D.R. PHEASANT. 1974. Delimitation of weathering zones in the fiord area of eastern Baffin Island, Canada. Geological Society of America Bulletin, 85:805-810.

Three weathering zones have been delimited on the basis of data collected during field reconnaissance studies. A detailed sampling of weathering characteristics in Maktak Fiord and subsequent use of character analysis and discriminant analysis techniques supports the tri-zonal classification. The best combination of weathering characteristics for future use in statistical delimitation of weathering zones was tested by multiple stepwise discriminant analysis procedures. [Andrews and Andrews 1980]

Geology, Auyuittuq

BRADFORD, J.D., and M. MOLINE (Compilers). 1980. Bibliography on northern sea ice and related subjects. Canadian special publication of Fisheries and Aquatic Sciences 45. Marine Operations, Ministry of Transport and Marine Science Branch, Department of Energy, Mines and Resources, Ottawa, Ontario. 194 pp.

Contains material (published up to 1974) relating to the problem that sea ice presents to vessels.

Sea ice, climatology

BRADLEY, R.S. 1973a. Recent freezing level changes and climatic deterioration of the Canadian Arctic Archipelago. Nature, 243:398-400.

Presents an analysis of upper air data from the Canadian Arctic Archipelago for two nine-year periods (1955-1963, 1964-1972). Results indicate that marked changes in freezing level heights have occurred during the past two decades as a result of changes in atmospheric circulation across the area. Also includes discussion of changes in glaciological response and sea ice conditions.

Climatology, geology, sea ice

BRADLEY, R.S. 1973b. Seasonal climatic fluctuations on Baffin Island during the period of instrumental records. Arctic, 26:230-243.

Temperature and precipitation records for Baffin Island are examined on a seasonal basis for the last 40 to 50 years. [Andrews and Andrews 1980]

Climatology

BRADLEY, R.S., and G.H. MILLER. 1972. Recent climatic change and increased glacierization in the eastern Canadian Arctic. Nature, 237:385-387.

Uses climatic and glacial evidence to show that a marked climatic deterioration has occurred in Cumberland Peninsula over the past decade.

Climatology, geology

BRASSARD, G.R., R.J. BELLAND, and J. BRIDGLAND. 1982. Two rare arctic or montane mosses new to the Canadian Arctic Archipelago. Bryologist, 85:139-141.

Oreas martiana and Tetraplodon paradoxus are added to the moss flora of the Canadian Arctic Archipelago. Oreas martiana was collected at Auyuittuq. Tetraplodon paradoxus was collected at Sillinan's Fossil Mount near Frobisher Bay.

Flora, Auyuittuq

BRENEMAN, R. 1984. Auyuittuq National Park Reserve annual polar bear report and summary of pre-1983 polar bear occurrences. Unpublished report, Parks Canada, Pangnirtung, Northwest Territories. 22 pp.

Summarizes observations of polar bears in Auyuittuq.

Fauna, Auyuittuq

BRENEMAN, R. 1985a. 1985 Annual polar bear report, Auyuittuq National Park Reserve. Unpublished report, Parks Canada, Pangnirtung, Northwest Territories. 9 pp.

Summarizes observations of polar bears in Auyuittuq.

Fauna, Auyuittuq

BRENEMAN, R. 1985b. Auyuittuq National Park proposed trail repair. Screening report AUY-84-02. Parks Canada, Pangnirtung, Northwest Territories. 17 pp.

General, Auyuittuq

BRENEMAN, R. 1985c. Auyuittuq National Park Reserve annual polar bear report and summary of pre-1984 polar bear occurrences. Unpublished report, Parks Canada, Pangnirtung, Northwest Territories. 16 pp.

Summarizes observations of polar bears in Auyuittuq.

Fauna, Auyuittuq

BRENEMAN, R. 1985d. Bear management plan, Auyuittuq National Park Reserve, 1986-1991. Unpublished report, Parks Canada, Pangnirtung, Northwest Territories. 27 pp.

Summarizes background information on polar bears in Auyuittuq. Plans to manage bears and reduce human/bear conflicts are proposed.

Fauna, Auyuittuq

BRENEMAN, R. 1985e. Polar bear procedural guidelines, Auyuittuq National Park Reserve. Unpublished report, Parks Canada, Pangnirtung, Northwest Territories. 10 pp.

Fauna, Auyuittuq

BRIGHAM, J.K. 1979. Amino acid geochronology of Quaternary glaciomarine sediments, Broughton Island, S.E. Baffin Island, N.W.T., Canada. Geological Society of America, Abstracts with Programs, 11:394.

The chronology of the area is studied through an examination of the marine and glaciomarine terraces on Broughton Island which record evidence of glacio-isostatic adjustments and eustatic sea level changes.

Geology, marine environment

BRIGHAM, J.K. 1980. Stratigraphy, amino acid geochronology, and genesis of Quaternary sediments, Broughton Island, E. Baffin Island, Canada. M.Sc. thesis, University of Colorado, Boulder, Colorado. 199 pp.

Geology

BRINTNELL, L. 1978. The rise and fall of Kikerten and Blacklead: the end of the whaling era in Cumberland Sound. North, 25(2):2-7.

History of whaling in Cumberland Sound.

Fauna, marine environment, human history, popular

BRODIE, P.F. 1971. A reconsideration of aspects of growth, reproduction, and behaviour of the white whale (Delphinapterus leucas), with reference to Cumberland Sound, Baffin Island, population. Journal of the Fisheries Research Board of Canada, 28:1309-1318.

On the biology of belugas in the Cumberland Sound area.

Fauna, marine environment

BRODIE, P.F. 1973. The growth of the white whale. Fisheries Development Section, Northwest Territories Department of Industry and Development.

Material for this publication was collected at Cumberland Sound, near Auyuittuq National Park. [Ruffman 1974]

Fauna, marine environment

BRODIE, P.F. 1982. The beluga (Delphinapterus leucas); growth at age based on a captive specimen and a discussion of factors affecting natural mortality estimates. Report of the International Whaling Commission, 32:445-447.

Length at age as well as colour change data, obtained from a captive beluga over a 13-year period, are in close agreement with those for Cumberland Sound belugas only if it is assumed that two growth layer groups are annual tooth deposits. Reasons for a double annual tooth lamination rate are discussed. The frequency and significance of ice entrapment as a factor in natural mortality of belugas is also considered.

Fauna, marine environment

BRODIE, P.F., J.L. PARSONS, and D.E. SERGEANT. 1981. Present status of the white whale (Delphinapterus leucas) in Cumberland Sound, Baffin Island. Report of the International Whaling Commission, 31:579-582.

Discusses the present status of the white whale in Cumberland Sound. Includes information on whale harvest and quotas, and assessments of population identity, population size and net yield.

Fauna, marine environment

BROMLEY, R.G. 1988. Status of peregrine falcons (Falco peregrinus tundrius) in the Kitikmeot, Baffin and Keewatin regions, Northwest Territories, 1982 to 1985. In Proceedings of the 1985 Peregrine Conference, Raptor Research Foundation International Meeting, Sacramento, California, November 1985. In press.

Reports on falcon nest surveys in the vicinity of Auyuittuq National Park Reserve.

Fauna, Auyuittuq

BROMLEY, R.G., and B.D. MCLEAN. 1986. Raptor surveys in the Kitikmeot and Baffin regions, Northwest Territories, 1983 and 1984.

Contains information on the densities, productivity and production of Gyrfalcons near Pangnirtung and Broughton Island. Observations were also recorded on Tundra Peregrine Falcons, Golden Eagles, Rough-legged Hawks, and Common Ravens.

Fauna

BROWN, K. 1982. Planning national marine parks. In Federal-Provincial Parks conference, 21st: 1982. Nova Scotia Department of Lands and Forests, Halifax, Nova Scotia. pp. 239-249.

Briefly discusses the addition of 5 coastal parks with marine components (including Auyuittuq) to the parks system. Also discusses the national marine park concept and objectives. Cumberland Sound is included as a potential marine natural area.

General, marine environment, Auyuittuq

BROWN, R. 1868. Notes on the history and geographical relations of the Cetacea frequenting Davis Strait and Baffin's Bay. Proceedings of the Zoological Society of London, 35:533-556.

Contains synonyms, descriptions, notes on geographical range, migrations and habits, of sixteen species of whales. [Arctic Institute of North America 1953]

Fauna, marine environment

BROWN, R.G.B., D.N. NETTLESHIP, P. GERMAIN, C.E. TULL, and T. DAVIS. 1975. Atlas of eastern Canadian seabirds. Canadian Wildlife Service, Environment Canada, Ottawa, Ontario. 220 pp.

Summary of the general ecology, pelagic and breeding distributions of seabirds in the Gulf of St. Lawrence, the Atlantic Provinces and the eastern Canadian Arctic. Includes maps of the pelagic distribution of seabirds in the northwest Atlantic.

Fauna, marine environment

BROWN, R.J.E. 1972. Permafrost in the Canadian Arctic Archipelago. Zeitschrift fur Geomorphologie, Supplementary Band 13:102-130.

An excellent summary of the knowledge on permafrost in the Canadian Arctic Archipelago. Contains information on the history of investigations, climate, terrain features, characteristics of permafrost, and physical factors influencing distribution and occurrence of permafrost.

Geology, soils, climatology

BROWN, W.J. 1964. Distribution of the beetles of the eastern Canadian Arctic. Arctic Circular, 16:29-30.

General information on the number of species of beetles known to inhabit various locations in the eastern arctic. Suggests some factors which may limit beetle distribution.

Fauna

BRUEMMER, F. 1971. Whalers of the North. Beaver, Outfit 300 (Winter):44-55.

An account of the whaling industry in the Canadian Arctic from 1610 to 1913.

Fauna, marine environment, human history, resource harvest

BUCHANAN, R.A., and W.E. RENAUD. 1977. The marine ecology of Lancaster Sound and adjacent waters: an annotated bibliography. Unpublished report prepared by LGL Limited, Toronto, Ontario for the Institute of Ocean Sciences, Environment Canada, Victoria, British Columbia. 262 pp.

A guide to information on the impact of offshore exploratory drilling in the eastern and central high arctic. Subjects include: physical oceanography, nutrients, primary production, phytoplankton, zooplankton, benthos, nekton, ornithology, mammalogy, and pollution.

Marine environment, fauna, flora, environmental impact

BUNCH, J.N. 1979. Microbiological observations in south Davis Strait. First report to the Eastern Arctic Marine Environmental Studies (EAMES) project. Arctic Biological Station, Fisheries and Marine Service, Fisheries and Environment Canada, Ste. Anne de Bellevue, Quebec. Fisheries and Marine Service Manuscript Report Number 1515. 92 pp.

Presents an analysis of microorganisms, including bacteria, yeasts, fungi and phytoplankton, collected during three cruises in Davis Strait. Total numbers of bacterial cells, total viable heterotrophs, numbers of oleoclastic bacteria, potential heterotrophic activity, mineralization of hexadecane and concentrations of particulate and dissolved organic carbon were determined. The physical properties of sea water collected during the cruises were tested for temperature, salinity, reactive phosphates, and nitrate.

Marine environment, flora

BUSHNELL, J.H., and E.R. BYRON. 1979. Morphological variability and distribution of aquatic invertebrates (principally Crustacea) from the Cumberland Peninsula and Frobisher Bay regions, Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 11:159-177.

Eighteen pools, ponds, and lakes on the Cumberland Peninsula were sampled (in 1969-1975) for crustacean fauna. Some genera of rotifers are briefly discussed and the species diversity of plankton in ponds and lakes are compared with previously reported information.

Fauna, freshwater

CALDER, D.R. 1970. Thecate hydroids from the shelf waters of northern Canada. Journal of the Fisheries Research Board of Canada, 27:1501-1547.

A total of 71 species of thecate hydroids from the shelf waters of northern Canada are identified from this study and from previous records. A systematic account is given for each species. Collection records, description and distribution around the world are noted.

Fauna, marine environment

CALDER, D.R. 1972. Some athecate hydroids from the shelf waters of northern Canada. Journal of the Fisheries Research Board of Canada, 29:217-228.

A total of 21 species of athecate hydroids from the shelf waters of northern Canada are identified from this study and previous records. A systematic account is given for each species. Descriptions and remarks on habitat and occurrence are noted.

Fauna, marine environment

CANADIAN WILDLIFE SERVICE. 1972. Arctic ecology map series. Critical wildlife areas (2nd edition). Department of Environment, Ottawa, Ontario. 324 pp + 34 map sheets.

In a series of 34 maps and 35 booklets, information is presented on key areas of particular importance for wildlife over most of the Canadian north. Maps at a scale of 1:1,000,000 present information on critical and important wildlife areas, migratory routes, seasonal use and habitat function for 18 species or groups of species. Each map sheet is accompanied by a booklet which outlines activities that are deletericus to wildlife or their habitat, and gives examples and suggestions for the protection of each species or group of species.

Fauna, environmental impact

CANPLAN OCEANOLOGY LIMITED. 1976. A literature survey of chemical oceanographic studies carried out in the Arctic. Unpublished report by Canplan Oceanography Limited, Halifax, Nova Scotia for Atlantic Oceanographic Laboratory, Ocean and Aquatic Sciences, Environment Canada, Halifax, Nova Scotia. 233 pp.

Contains over 200 annotated references on chemical oceanography for arctic regions north of 60° latitude including all marine and estuarine waters of northern Canada, Alaska, U.S.S.R., Norway and the seas surrounding Iceland and Greenland.

Marine environment

CARRARA, P.E. 1975. The ice-cored moraines of Akudnirmuit Glacier, Cumberland Peninsula, Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 7:61-67.

An investigation of ice-cored moraines occurring in a hanging cross-valley between the heads of Narpaing and Quajon fiords on the Cumberland Peninsula. Ages of the moraines were determined by lichenometry. A description is given of each moraine's characteristics.

Geology, climatology, flora, Auyuittuq

CARRARA, P.E., and J.T. ANDREWS. 1972. The Quaternary history of northern Cumberland Peninsula, Baffin Island, N.W.T., Canada. Part I: the late- and neoglacial deposits of Akudlermuit and Boas Glaciers. Canadian Journal of Earth Sciences, 9:403-414.

Moraines of local glaciers predating the Neoglacial occur in sections of northern Cumberland Peninsula. A study of these deposits is reported for the area between the heads of Quajon and Narpaing Fiords. A chronology is developed based on lichenometry, percent of lichen cover, and the weathering of boulders and pebbles. [Andrews and Andrews 1980]

Geology, flora, Auyuittuq

CARSON, W.K. 1954. The invasion of Padloping Island: Canadian sailors gather weather data above the Arctic circle. Crowsnest, 6:18.

Contains a brief description of the personnel and activities on Padloping Island off the east Baffin Island coast. [A.D. Revill Associates 1975]

Popular, general, climatology

CENTRE DE RECHERCHES SUR L'EAU. 1978. Hydrological study of the southeastern portion of Auyuittuq National Park, Baffin Island. Unpublished report (CRE-78/02) prepared for the Department of Indian Affairs and Northern Development. 316 pp.

Inventory of hydrological characteristics of Pangnirtung Pass with emphasis on the Owl and Weasel river basins. Observations and recordings include streamflow measurements, suspended sediments, daily and hourly fluctuations, watershed characteristics, and meteorological observations.

Freshwater, Auyuittuq

CHARRON, L., et D. LE SAUTEUR. 1975. Application des donnees de Landsat-1 dans le cadre d'une classification biophysique du territoire et d'une etude geomorphologique, Parc national Auyuittuq, Ile de Baffin. Rapport preliminaire prepare a l'intention du Centre canadien de tele-detection, Energie, Mines et Ressources, Ottawa, Ontario. 14 pp. + annexes

An attempt at biophysical and geomorphological classification of the Park using Landsat imagery.

Geology, freshwater, flora, Auyuittuq

CHEFFINS, E.B. 1972. National Park reconnaissance of the Cumberland Peninsula, Baffin Island, Northwest Territories. Unpublished report, Parks Canada, Department of Indian Affairs and Northern Development.

The surficial geology, glaciology and landforms are discussed, together with the prospects for economic geology. The fauna and hunting potential are reviewed. The vegetation is described as moss lichen mats, dwarf shrub mats, and rock desert; some areas have continuous plant cover. [A.D. Revill Associates 1975]

Geology, fauna, resource harvest, flora, Auyuittuq

CHEFFINS, W.H. 1973. Le premier Parc National Arctique du monde. North, 20(3):17-18.

Briefly describes the important wildlife, physical attractions in the park and the human history of the area.

Popular, general, human history, Auyuittuq

CHRISTIE, R.L. (Compiler). 1971. Publications on the geology of the Arctic Islands by the Geological Survey of Canada. Geological Survey of Canada Paper 71-10. Ottawa, Ontario. 21 pp.

List of publications by the Geological Survey of Canada on the geology of the District of Franklin, Arctic Island Region.

Geology

CHRISTIE, R.L. (Compiler). 1973. Publications on the geology of the Arctic Islands by the Geological Survey of Canada. Geological Survey of Canada Paper 73-11. Ottawa, Ontario. 39 pp.

List of publications by the Geological Survey of Canada on the geology of the District of Franklin, Arctic Island Region.

Geology

CHURCH, M. 1970. Baffin Island sandar: a study of arctic fluvial environments. Ph.D. thesis, University of British Columbia, Vancouver, British Columbia. 536 pp.

Discusses studies of sand and soil deposits in central Baffin Island including Auyuittuq.

Geology, freshwater, climatology, Auyuittuq

CHURCH, M. 1972a. Baffin Island sandar: a study of arctic fluvial processes. Geological Survey of Canada Bulletin 216. 208 pp.

Discusses studies of sand and soil deposits in central Baffin Island including Auyuittuq.

Geology, freshwater, climatology, Auyuittuq

CHURCH, M. 1972b. Studies of glacial-fluvial geomorphology in Maktak Fjord, Baffin Island, 1972: preliminary report. Report to Parks Branch, Department of Indian Affairs and Northern Development. 23 pp.

Discusses fieldwork on the morphology and sedimentology of the sandar at the head of Maktak Fjord. The work involved surveying, sonar profiling, streamflow and sediment transport measurements, sediment sampling and vegetation sampling - a phenological list of vascular plants is included. [Andrews and Andrews 1980]

Geology, freshwater, flora, Auyuittuq

CHURCH, M. 1974. On the quality of some waters on Baffin Island, Northwest Territories. Canadian Journal of Earth Sciences, 11:1676-1688.

In glacierized and nonglacierized river basins in eastern and central Baffin Island, waters are generally very soft (total dissolved solids in the order of 5-50 mg/l). Diurnal and seasonal fluctuations in dissolved solids concentration are related to runoff characteristics and sources. [Andrews and Andrews 1980]

Freshwater

CHURCH, M. 1978. Palaeohydrological reconstructions from a Holocene valley fill. In Fluvial sedimentology. Edited by A.D. Miall. Canadian Society of Petroleum Geologists Memoir Number 5:743-772.

At the head of Ekalugad Fiord, eastern Baffin Island, a sequence of outwash deposits preserves a 6,000 year history of Holocene fluvial activity. Results from the sampling of T2 sediments to determine grain size form the basis for palaeoflow calculations. The assumptions underlying these calculations are presented and critically examined.

Geology, freshwater

CHURCH, M., and R. GILBERT. 1975. Proglacial fluvial and lacustrine environments. In Glaciofluvial and glaciolacustrine sedimentation. Edited by A.V. Jopling and B.C. McDonald. Society of Economic Paleontologists and Mineralogists Special Publication 23. Tulsa, Oklahoma. pp. 22-100.

Reviews the hydrology and hydraulics of high energy, particularly proglacial, riverine and deltaic environments, and discusses some of the consequences for resultant patterns of sediment movement and deposition. Some studies were conducted on Baffin Island at the Ekalugad, Lewis and Maktak Rivers.

Freshwater, geology, Auyuittuq

CHURCH, M., R.F. STOCK, and J.M. RYDER. 1979. Contemporary sedimentary environments on Baffin Island, N.W.T., Canada: debris slope accumulations. Arctic and Alpine Research 11:371-402.

Presents observations of the morphology and processes on debris slopes in the Home Bay and northern Cumberland Peninsula regions of east Baffin Island. Areas of study include Inugsuin Fiord, North Tingin Fiord, Ekalugad Fiord, Confederation Fiord, and Maktak Fiord.

Geology, Auyuittuq

CHURCHILL, J. 1985. Recreational impacts and environmental degradation of trails in Auyuittuq National Park Reserve, Baffin Island, N.W.T. B.Sc. Honors thesis, Trent University Peterborough, Ontario. 170 pp.

Study on the physical impact of recreational use of trails in Auyuittuq, particularly the Pangnirtung Pass area. Potential forms of trail degradation and the significance of the active layer of permafrost are discussed.

Environmental impact, Auyuittuq

CLARK, K.R.F. 1971. Food habits and behaviour of the tundra wolf on central Baffin Island. Ph.D. thesis, University of Toronto, Toronto, Ontario. 223 pp.

Presents results from a study of food habits, food gathering, denning behaviour, behavioural development of the young, activity patterns, and factors regulating numbers of the Baffin Island tundra wolf. Contributes to an understanding of the relationships between unexploited populations of this predator and its single large prey species, the caribou.

Fauna

CLARK, R.C., and J.S. FINLEY. 1977. Effect of oil spills in arctic and subarctic environments. In Effects of petroleum on arctic and subarctic marine environments and organisms. Edited by D.C. Malins. Academic Press, New York, New York. Volume II - biological effects. pp. 411-416.

Defines arctic and subarctic marine environments and discusses problems in predicting the biological impact of oil spills in those environments.

Marine environment, environmental impact

CLAYTON, J.S., W.A. EHRLICH, D.B. CANN, J.H. DAY, and I.B. MARSHALL. 1977. Soils of Canada. Research Branch, Canada Department of Agriculture, Ottawa, Ontario. Volumes I and II + maps.

A description of the major soils of Canada. Coverage includes characteristics, distribution, extent, and assessment of their potential and limitation for use as part of the renewable land resource.

Volume I. Main topics - soil concepts; biophysical environments of Canadian soils; description of soils and mapping units; morphological, physical, and chemical properties of selected soils.

Volume II. Main topic - soil inventory.

Soils, geology, climatology, flora

CLIFTON AND WESTMINSTER EXPEDITION. 1977. The joint Clifton and Westminster Expedition to Baffin Island: July 12th-August 26th, 1977. Westminster School, London, England and Clifton College, Bristol, England.

Account of a school expedition to Cumberland Peninsula. Contains information on the biota and physical environment of the area.

General, fauna, flora, climatology, geology

COLLIN, A.E. 1963. The waters of the Canadian Arctic Archipelago. In Proceedings of the Arctic Basin Symposium. Arctic Institute of North America, Washington, D.C. pp. 128-136.

A summary of the geographic dimensions, depths, ice conditions, water circulation, and other characteristics of five water masses: Arctic Ocean, McClure Strait, Viscount Melville Sound, Lancaster Sound, and Baffin Bay.

Marine environment, sea ice

COLLIN, G. 1980. Monitoring of wildlife during the 1980 Davis Strait refraction survey, September-October 1980. Prepared for Aquitaine Company of Canada Limited.

The effects of a seismic operation on wildlife near the mouth of Frobisher Bay are reported.

Fauna, marine environment, environmental impact

CORBELLINI, G., and E. VALENTINO. 1977. Geomorphological notes on the areas explored by the 2nd Italian Alpine Scientific Expedition to Baffin Island, Cumberland Peninsula. / Note geomorfologiche sulle aree esploration dalla II Spedizione Alpinistico-Scientifica Italiana nella Terra di Baffin (Penisola di Cumberland). Natura (ITA) (NTRMAP), 68:181-196. [Andrews and Andrews 1980]

Geology

CRANE, R.G. 1978a. Seasonal variations of sea ice extent in the Davis Strait - Labrador Sea area and relationships with synoptic-scale atmospheric circulation. Arctic, 31:434-447.

Patterns of ice advance and retreat (1964-1974) are analyzed in relation to changes of synoptic circulation in the northern Labrador Sea and Davis Strait.

Sea ice, climatology

CRANE, R.G. 1978b. Synoptic controls on the energy budget regime of an ablating fast ice surface. M.A. thesis, University of Colorado, Boulder, Colorado.

Geology, climatology, sea ice

CRANE, R.G. 1979. Synoptic controls on the energy budget regime of an ablating fast ice surface. Archiv fur Meteorologie, Geophysik und Bioklimatologie Series A 28:53-70.

Presents the results of energy budget studies over fast ice conducted near Broughton Island from 13 June to 20 July 1972. Describes the results of two differentiated energy budget regimes related to the stage of decay of the fast ice.

Geology, climatology, sea ice

CURTIS, M.A. 1975. The marine benthos of arctic and subarctic continental shelves. Polar Record, 17:595-626.

General review of studies on marine benthic organisms inhabiting northern seas. Emphasis is on the results of ecological work on the continental shelves. Regions discussed include Greenland, Hudson Bay, and the Arctic Islands.

Marine environment, fauna, flora

DALE, J.E. 1987. **Benthic macrofauna of some Baffin Island fiords.** In **The Canadian Arctic Islands: Canada's missing dimension. National Museum of Natural Sciences, Ottawa, Ontario. In press.**

Preliminary results from a sampling program in south Pangnirtung Fiord and initial analyses of a series of videotapes taken of the bottom of seven fiords suggest that faunal communities reflect substrate characteristics. These results and analyses are discussed and further study requirements are mentioned.

Marine environment, fauna

DAVIS, P.T. 1980. Late Holocene glacial, vegetational, and climatic history of Pangnirtung and Kingnait Fiord area, Baffin Island, N.W.T., Canada. Ph.D. thesis, University of Colorado, Boulder, Colorado. 378 pp.

A Neoglacial chronology is derived from detailed lichenometric studies on over 85 moraines on southern Cumberland Peninsula. Contains an examination of silty sediments from Shadow Lake. Studies of modern pollen deposition in surface lacustrine sediments, moss polsters, and Tauber traps allow interpretation of past palynological records in terms of qualitative vegetational changes. Meteorological records and contemporary local and regional pollen were also used to develop transfer functions and to estimate numerical paleoclimatic variations.

Geology, climatology, flora

DAVIS, R.A., K.J. FINLEY, and W.J. RICHARDSON. 1978. The present abundance and stock identity of eastern Arctic white whales. Paper SC/31/SM10 presented to the International Whaling Commission Scientific Committee, Cambridge, England. June 1979.

Fauna, marine environment

DAVIS, R.A., K.J. FINLEY, and W.J. RICHARDSON. 1980. The present status and future management of arctic marine mammals in Canada. Science Advisory Board of the Northwest Territories Report Number 3. 93 pp.

A review of information on marine mammals in the Canadian Arctic. Reports on: species distribution; population status, structure and dynamics; reproductive biology; mortality; age and sex structure; harvest and utilization; hunting loss. Species distribution and migration maps are included.

Fauna, marine environment, resource harvest

DECKER, R. 1988. Northern land use information series (central Baffin 1985-86): wildlife notes. Unpublished notes to accompany the northern land use information map series produced by Environment Canada. Department of Renewable Resources, Yellowknife, Northwest Territories and Environment Canada, Lands Directorate, Ottawa, Ontario. In press.

Notes on wildlife of the central Baffin region. Emphasis is on marine birds, caribou, and to some extent waterfowl (especially eiders) and raptors. Discussions include habitat, distribution, migration patterns, and habits. Species lists of birds and terrestrial mammals are included.

Fauna

DEN BESTE, J. and P.J. MCCART. 1978a. Nearshore marine fisheries investigations in coastal areas of southeast Baffin Island. Unpublished report prepared by Aquatic Environments Limited, Calgary for Esso Resources Canada Limited, Aquitaine Company of Canada Limited and Canada Cities Services Limited, Calgary, Alberta. 154 pp.

Presents results of marine fish habitat and zooplankton studies between Edgell Island, Brevoort Island, and the mouth of Frobisher Bay, 1978.

Marine environment, fauna

DEN BESTE, J. and P.J. MCCART. 1978b. Studies of benthic fauna and macroalgae in coastal areas of southeast Baffin Island. Unpublished report by Aquatic Environments Limited, Calgary for Esso Resources Canada

Limited, Aquitaine Company of Canada Limited and Canada Cities Services Limited, Calgary, Alberta.

Presents results from baseline studies of the intertidal and subtidal fauna and flora of southeast Baffin Island in August, 1978. Studies involved surface sampling and sampling of bottom communities from 5 locations: 3 sites at Loks Land, 1 on the south arm of Butterfly Bay, and 1 at Cornelius Grinnell Bay near Allen Island.

Marine environment, fauna, flora

DICKIE, G. 1867. Notes on a collection of Algae procured in Cumberland Sound by Mr. James Taylor, and remarks on arctic species in general. Journal of the Linnaean Society (London), Botany, 9:235-243.

Annotated list of 77 species of (mostly marine) algae, collected by the physician of a British whaling vessel, with a summary on species previously found in the waters of Baffin Bay-Davis Strait. [Arctic Institute of North America 1953]

Flora, marine environment

DROLET, C.A. 1978. Description of the wildlife species harvested in and around Auyuittuq National Park. Contract report, Canadian Wildlife Service, Quebec Region. 43 pp. + appendices.

Summary of the existing literature, harvest reports, and personal interviews relating to wildlife harvest in the Baffin Island area.

Fauna, resource harvest, Auyuittuq

DUDLEY, K.F. 1972. The Eskimo place names of northern Cumberland Peninsula, from Home Bay to Cape Dyer, Baffin Island, N.W.T., Canada (with English translations). Arctic and Alpine Research, 4:343-347.

Local Inuit of Broughton Island, under the direction of a high school instructor, compiled a map and glossary of local placenames. Because names are directly related to the significant characteristics of each locale, they can suggest suitable locations for various kinds of fieldwork. 1 map. [A.D. Revill Associates 1975]

General, Auyuittuq

DUGDALE, R.E. 1972. The Quaternary history of the northern Cumberland Peninsula, Baffin Island, N.W.T., Part III: the late glacial deposits of Sulung and Itidlirn Valleys and adjacent parts of Maktak - Narpaing Trough. Canadian Journal of Earth Sciences, 9:366-374.

Four moraines, including a lateral moraine of a major outlet glacier and three corrie end moraines, are recognized and dated. [Andrews and Andrews 1980]

Geology, Auyuittuq

DUNBAR, M., and K.R. GREENAWAY. 1956. Baffin Island. In Arctic Canada from the air. Defense Research Board of Canada. Queen's Printer, Ottawa, Ontario. pp. 92-142.

Presents air photos of Baffin Island and briefly discusses the history of exploration and the establishment of settlements on the island. Regional topographic and geological features including main drainages, and prominent glaciers and land forms are described.

Human history, geology

DUNBAR, M.J. 1941. On the food of seals in the Canadian eastern Arctic. Canadian Journal of Research, 19:150-155.

Results of the author's studies while with the Canadian Eastern Arctic Patrols, 1939-40. Includes a description of stomach contents of ringed, bearded, and harp seals of Baffin Island waters, and a discussion of the food habits of the ringed seal in relation to plankton succession in fiord waters. [Arctic Institute of North America 1953]

Fauna, marine environment

DUNBAR, M.J. 1955. The status of the Atlantic walrus Odobenus rosmarus (L.) in Canada. Arctic Circular, 8:11-14.

Briefly discusses the decline of the Atlantic walrus and some of the solutions employed to restrict the decline. Stresses the need for extensive research of the biology of the walrus in order to effectively manage the species.

Fauna, marine environment, resource harvest

DUNBAR, M.J., and D.M. MOORE. 1980. Marine life and its environment in the Canadian eastern Arctic: a biogeographic study. McGill University, Marine Sciences Centre Manuscript Report 33. Montreal, Quebec. 119 pp.

Reviews the status of knowledge and literature on the water masses, climate change, sea ice, phytoplankton, zooplankton, littoral and benthic fauna, fishes, seabirds and shorebirds, pinnipeds and cetaceans of the eastern Arctic. The region considered includes the eastern Baffin Island coast.

Marine environment, fauna, climatology, sea ice

DURVILLE, J. 1978. Baffin: paradis des alpinistes. North, 25(5):32-37.

Account of a visit by 'Le Club Alpin Francais' to Auyuittuq. Their expedition began at the Pangnirtung Fiord and continued along the Weasel River.

Popular, general, Auyuittuq

DYKE, A.S. 1977. Quaternary geomorphology, glacial chronology and climatic and sea-level history of southwestern Cumberland Peninsula, Baffin Island, N.W.T., Canada. Ph.D. thesis, University of Colorado, Boulder, Colorado. 207 pp.

Stratigraphies of a large number of Holocene terrestrial sections and 41 radiocarbon dates on organic material from the area along with data on glacier fluctuations permit a reconstruction of paleoclimate.

Geology, climatology, Auyuittuq

DYKE, A.S. 1978. Qualitative rates of frost heaving in gneissic bedrock on southeastern Baffin Island, District of Franklin. In Current Research, Part A. Geological Survey of Canada Paper 78-1A. Ottawa, Ontario. pp. 501-502.

Establishes rates of frost heave in gneissic bedrock using the morphostratigraphic approach in which a statistical study is made of the amounts of block displacement on a number of morphologic units of known age.

Geology, soils

DYKE, A.S. 1979. Glacial and sea-level history of southwestern Cumberland Peninsula, Baffin Island, Canada. Arctic and Alpine Research, 11:179-202.

Presents glacial and sea-level history of the Cumberland Peninsula from data obtained from a study of the Quaternary geology of Cumberland Peninsula conducted in 1973 and 1974. Areas of discussion include sea level fluctuations, glacial retreat, and the survey of geological weathering zones.

Geology, marine environment

DYKE, A.S., J.T. ANDREWS, and G.H. MILLER. 1982. Quaternary geology of Cumberland Peninsula, Baffin Island, District of Franklin. Geological Survey of Canada Memoir 403. Ottawa, Ontario. 32 pp.

The geological history, surficial materials, and landscape of Cumberland Peninsula are detailed. The susceptibility of terrain to human-induced disturbances is discussed.

Geology, environmental impact, climatology

DYKE, A.S., J. BOCKHEIM, and C. LAFARGE. 1974. Geomorphological investigations of the National Park on Baffin Island: phase II. Contract report to Parks Canada, Quebec Region. 29 pp.

Geology, Auyuittuq

ELLIOTT, R.C. 1972a. Final progress report - Baffin Island National Park - biological survey. Parks Canada. 5 pp.

A progress report on the reconnaissance of the National Park on Baffin Island. Information compiled on flora, fauna, physiography, geology, archaeology, meteorology, accessibility, and history of the park is presented in the final report (ELLIOTT 1973).

General, Auyuittuq

ELLIOTT, R.C. 1972b. Summer ecology of barren-ground caribou in central Baffin Island. M.Sc. thesis, University of Toronto, Toronto, Ontario. 110 pp.

Discusses the migration, distribution and population dynamics of the barren-ground caribou of central Baffin Island.

Fauna

ELLIOTT, R.C. 1973a. Preliminary report on the reconnaissance of the National Park on Baffin Island, for the purpose of revising boundaries. 16 pp.

A preliminary report recommending new boundaries for Baffin Island National Park. Features are described by region, with brief comments as to significance and sources of information where appropriate. Further information on many features is included in the final report (ELLIOTT 1973).

General, Auyuittuq

ELLIOTT, R.C. 1973b. A report on the reconnaissance of the National Park on Baffin Island, 1972. Report to Applied Research Division, Parks Canada, Department of Indian and Northern Affairs, Ottawa, Ontario, Contract 72-54. 210 pp.

Presents general information on flora, fauna, physiography, geology, archaeology, meteorology, accessibility, and history of Auyuittuq. Includes recommendations for park boundary revisions, and flora and fauna species lists. 7 pages of photos are separate.

General, flora, fauna, Auyuittuq

ELLIOTT, R.C. 1973c. Seabird survey Baffin Island: Cumberland Sound, and east coast from Cape Dyer to Ekalugad Fiord, summer 1972. Canadian Wildlife Service, Department of Environment. Studies on northern seabirds report number 13. 7 pp.

Results of a survey of seabird colonies in Cumberland Sound and northeastern Cumberland Peninsula in July 1972 are presented. Contains information on nesting colonies and concentrations of seabirds.

Fauna, marine environment, Auyuittuq

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ELLIOTT, R.C., and C.E. ELLIOTT. 1974a. Baffin Island caribou survey progress report June 10/14 July 1974. 4 pp.

Fauna

ELLIOTT, R.C., and C.E. ELLIOTT. 1974b. Observations of the distribution and migration of caribou on southern Baffin Island, July 4 - Aug. 8, 1974. 11 pp.

Presents results of an aerial survey conducted in the summer of 1974, to map post-calving migrations and summering grounds of caribou on southern Baffin Island, and to obtain an estimate of population size and productivity.

Fauna

ELLIOTT, R.C., and C.E. ELLIOTT. 1978. Air access study of Auyuittuq National Park, 1977. Report to Parks Canada Ottawa, Ontario, Contract 77-146. 248 pp + maps.

Assesses the feasibility of landing and take-off of fixed-wing aircraft on natural terrain in Auyuittuq and the surrounding area. Describes natural landing sites and assesses aircraft use capability of each; describes the significant features of parts of the park where natural landing sites are found and assesses the visitor use potential of each area; assesses the feasibility of providing an air service from Pangnirtung and Broughton Island to natural landing sites in remote areas in and around the park mainly for visitor access.

General, fauna, flora, Auyuittuq

ELLIS, D.V. 1955. Some observations on the shore fauna of Baffin Island. Arctic, 8:224-236.

Presents the results of a study of the shore fauna and intertidal environment of the Frobisher Bay and Cumberland Sound area of east Baffin Island in 1953.

Fauna, marine environment

ELLIS, D.V. 1959. The benthos of soft sea-bottom in arctic North America. Nature, 184:79-80.

Discussion of soft-bottom communities studied in three areas: Baffin Island in 1954-55, Foxe Basin in 1957, and Greenland in 1956 by expeditions organized by the Arctic Institute of North America and the Fisheries Research Board of Canada. The role of environmental factors, especially of temperature in the geographic distribution of these communities is noted.

Marine environment, flora, fauna

ENGLAND, J.H., and J.T. ANDREWS 1973. Broughton Island - a reference area for Wisconsin and Holocene chronology and sea level changes on eastern Baffin Island. Boreas, 2:17-32.

Discusses the Holocene glacial chronology and sea-level history of the Broughton Island area.

Geology, climatology, marine environment

EVANS, L.J., and B.H. CAMERON. 1979. A chronosequence of soils developed from granitic morainal material, Baffin Island, N.W.T. Canadian Journal of Soil Science, 59:203-210.

Soils developing on morainal deposits near Auyuittuq are described and their classification is discussed.

Soils, geology

FAHRIG, W.F., and E.J. SCHWARTZ. 1973. Additional paleomagnetic data on the Baffin diabase dikes and a revised Franklin pole. Canadian Journal of Earth Sciences, 10:576-583.

Discusses paleomagnetic data from 11 sites on Baffin diabase dike intrusions. The data from these sites combined with data from 46 previously reported sites yield a revised Franklin diabase pole. Several of the sites are within Auyuittuq park. [A.D. Revill Associates 1975]

Geology, Auyuittuq

FALCONER, G., J.T. ANDREWS, and J.D. IVES. 1965. Late-Wisconsin end moraines in northern Canada. Science, 147:608-610.

Describes a 2240 km-long system of end moraines identified by field investigation and aerial photography. The system extends through northeastern Keewatin, Melville Peninsula, Baffin Island, and marks the border of a late-Wisconsin ice sheet over Foxe Basin and Hudson Bay 8,000-9,000 years ago. [Andrews and Andrews 1980]

Geology

FALCONER, G., J.D. IVES, O.H. LOKEN, and J.T. ANDREWS. 1965. Major end moraines in eastern and central arctic Canada. Geographical Bulletin, 7:137-153.

Describes a 2000 km-long system of end moraines identified by field investigation and aerial photography. The system runs parallel to the northeast coast of Baffin Island along the line of the fiord heads; it extends down the west coast of Melville Peninsula and across northern Keewatin and marks the edge of a Wisconsin ice sheet that was centered over Foxe Basin and Hudson Bay 8,000-9,000 years ago. The half dozen units of the system are described and related radiocarbon dates are discussed. [Andrews and Andrews 1980]

Geology

FARLOW, W.G. 1879. Algae, list of algae collected at points in Cumberland Sound during the autumn of 1877. In L. Kumlien, Contributions to the natural history of Arctic America made in connection with the Howgate Polar Expedition, 1877-1879. United States National Museum Bulletin, 15:169

List of 27 marine species collected during the Howgate Polar Expedition, 1877-78. [Arctic Institute of North America 1953]

Flora, marine environment

FENCO CONSULTANTS LIMITED. 1977. Davis Strait ice and oceanographic investigations, winter 1976-77. Unpublished report prepared by Fenco Consultants Limited, Calgary for Imperial Oil Limited, Calgary, Alberta. Arctic Petroleum Operators Association Project APOA 128-1. 96 pp.

Final report on meteorological, sea ice, and oceanographic conditions in Davis Strait and Cumberland Sound areas. Data collected includes sea ice characteristics, ocean current measurements, salinity, temperature and density profiles of surface waters, and meteorological observations. A map of the study area is included.

Sea ice, marine environment, climatology

FEYLING-HANSSEN, R.W. 1976. A mid-Wisconsinian Interstadial on Broughton Island, arctic Canada, and its foraminifera. Arctic and Alpine Research, 8:161-182.

Presents a quantitative analysis of fossil foraminifera faunas in raised marine deposits on Broughton Island. From each of ten sites from three localities on the island, species lists are provided with information on frequency, percentage and faunal diversity of each assemblage.

Fauna, marine environment

FINLEY, K.J., R.A. DAVIS, and H.B. SILVERMAN. 1980. Aspects of the narwhal hunt in the eastern Canadian Arctic. Report of the International Whaling Commission, 30:459-464.

Presents an assessment of narwhal hunting techniques, loss rates, and age and sex composition of the harvest during the 1976-78 hunts at Pond Inlet. Included are results from a study of a subsistence hunt on Somerset Island in 1977.

Fauna, marine environment, resource harvest

FRASER, J.E. 1975. Some sea ice cover statistics for the Canadian east coast. Unpublished report prepared by Imperial Oil Limited, Calgary, Alberta. Arctic Petroleum Operators Association Project 138-19. 27 pp.

Presents results of a study of sea ice cover on the Canadian east coast based on historical ice charts obtained from Ice Forecasting Central, Department of Environment. The statistics include average, maximum and minimum open water season lengths, and average, earliest and latest break-up and freeze-up dates.

Sea ice, climatology

GARDNER, J.E., and J.G. NELSON. 1980. Comparing national park and related reserve policy in hinterland areas: Alaska, northern Canada, and northern Australia. Environmental Conservation, 7:43-50.

Presents the results of a study of five elements of policy and institutional arrangements: the management field, comprehensive planning and management, system planning, public inquiries, and uses.

General

GASTON, A.J. 1985. Report on seabird studies in the Cape Dyer-Cape Searle area of Cumberland Peninsula, Baffin Island; July 1985. Canadian Wildlife Service, Ottawa, Ontario. 18 pp.

Morphometric and stomach content analysis of Thick-billed Murres from the colony south of Reid Bay, Baffin Island. Includes a census of all nesting seabirds, time of breeding, and surveys of areas suitable for studies of the breeding of murres and Northern Fulmars.

Fauna, marine environment

GASTON, A.J., and S.A. SMITH. 1987. Seabirds in the Cape Dyer-Reid Bay area of Cumberland Peninsula, Baffin Island Northwest Territories. Canadian Field-Naturalist, 101:49-55.

Describes species composition (Thick-billed Murres, Northern Fulmars, and Black-legged Kittiwakes) in the Reid Bay - Cape Dyer region of Cumberland Peninsula.

Fauna, marine environment

GEO-ANALYSIS (1981) LIMITED. 1985. Ecosection mapping, Auyuittuq National Park, Baffin Island, N.W.T. Proposal presented to Northwest Territories Department of Renewable Resources, Yellowknife, Northwest Territories. 9 pp.

A proposal to conduct biophysical mapping in Auyuittuq.

General, geology, flora, Auyuittuq

GILBERT, R. 1977. Report on work carried out at Pangnirtung Fiord, N.W.T. Unpublished report, Department of Geography, Queen's University, Kingston, Ontario. 22 pp.

Geology, marine environment

GILBERT, R. 1978a. Observations on oceanography and sedimentation at Pangnirtung Fiord, Baffin Island. Maritime Sediments, 14:1-9.

Presents observations on oceanography and sedimentation at Pangnirtung Fiord. Includes a description of the surficial geology near Pangnirtung Fiord, and information on the contributions from streams to flow and sedimentation, evidence of repeated and significant circulation of the fiord water, and sedimentation rates.

Geology, marine environment, freshwater

GILBERT, R. 1978b. The sedimentary environments of Maktak and Coronation Fiords, Baffin Island. Progress Report, Department of Geography, Queen's University, Kingston, Ontario. 61 pp.

Progress report discussing preliminary studies of the sedimentary environments of Coronation, Maktak and Pangnirtung fiords.

Geology, marine environment, Auyuittuq

GILBERT, R. 1979. Observations of the sedimentary environments of fjords on Cumberland Peninsula, Baffin Island. In Fjord oceanography. Edited by H.J. Freeland, D.M. Farmer, and C.D. Levings. Plenum Press, New York, New York. pp. 633-638.

Discusses preliminary studies of the sedimentary environments of Coronation, Maktak and Pangnirtung fiords.

Geology, marine environment, Auyuittuq

GILBERT, R. 1980. Environmental studies in Maktak, Coronation and North Pangnirtung Fiords, Baffin Island, N.W.T. Unpublished final report of research supported by funds from Petro-Canada Exploration Incorporated, the Natural Science and Engineering Research Council of Canada, and Queen's University, Kingston, Ontario. 97 pp.

In August 1978 and August 1979, observations of oceanography and sedimentology were carried out in Maktak, Coronation and North Pangnirtung Fiords. The results of these field studies and of an assessment of the possible environmental impact of oil pollution on this coast are presented.

Geology, marine environment, environmental impact, Auyuittuq

GILBERT, R. 1982a. Contemporary sedimentary environments on Baffin Island, N.W.T., Canada: glaciomarine processes in fiords of eastern Cumberland Peninsula. Arctic and Alpine Research, 14:1-12.

This report is concerned with the characteristics of Maktak, Coronation, and North Pangnirtung Fiords and their waters. Factors influencing sedimentation and marine invertebrates of the sediments are described.

Geology, freshwater, marine environment, fauna, Auyuittuq

GILBERT, R. 1982b. The Broughton Trough on the continental shelf of eastern Baffin Island, Northwest Territories. Canadian Journal of Earth Sciences, 19:1599-1607.

The four stages of development in the Broughton Trough, located northeast of Broughton Island in the continental shelf of North America, are documented.

Geology, marine environment

GILBERT, R. 1984? The fiordlands of northeastern Canada. In Studies in Canadian regional geography, essays in honour of J. Lewis Robinson. Edited by B.M. Barr. British Columbia Geographical Series Number 37:27-37.

The physical characteristics of arctic fiords, including those from Cumberland Peninsula, are described.

Geology, marine environment

GILBERT, R. 1984a. Observations at Pangnirtung Fiord. In Sedimentology of Arctic Fjords Experiment: HU 83-028 Data Report, Volume 2. Compiled by J.P. Syvitski. Atlantic Geoscience Centre, Geological Survey of Canada, Department of Energy, Mines and Resources, Bedford Institute of Oceanography, Dartmouth, Nova Scotia. Canadian Data Report of Hydrography and Ocean Sciences Number 28 (Section 3):1-7.

Observations on the sedimentology and oceanography of Pangnirtung Fiord are reported.

Geology, marine environment

GILBERT, R. 1984b. The movement of gravel by the alga Fucus vesiculosus (L.) on an arctic intertidal flat. Journal of Sedimentary Petrology, 54:463-468.

The mechanisms by which marine algae move gravel and the effects of such deposits on sedimentation in fiords are described.

Geology, flora, marine environment

GILBERT, R., and A.E. AITKEN. 1981. The role of sea ice in biophysical processes on intertidal flats at Pangnirtung (Baffin Island), N.W.T. In Workshop on the action of ice on shoreline evolution. Edited by J.-C. Dionne. National Research Council of Canada, Associate Committee for Research on Shoreline Erosion and Sedimentation, Proceedings. pp. 89-103.

Sea ice, geology, marine environment

GILBERT, R., and M. CHURCH. 1980. Sedimentary environments of proglacial and non-glacial lakes on Cumberland Peninsula, Baffin Island. Report submitted to the Geological Survey of Canada on work supported by Research Agreement EMR 4-227/76.

Describes preliminary studies in 1976-77 of four lakes receiving significant quantities of sediment from Penny Ice Cap and nearby smaller glaciers, and of 5 similar lakes in the same area receiving no glacial sediment. Includes information on dissolved sediment loads, zooplankton abundance, sediments (stratigraphy, texture and composition).

Freshwater, geology, Auyuittuq

GILBERT, R., and M. CHURCH. 1983. Contemporary sedimentary environments on Baffin Island, N.W.T., Canada: reconnaissance of lakes on Cumberland Peninsula. Arctic and Alpine Research, 15:321-332.

This report is concerned with the limnology and sedimentology of nine lakes on Cumberland Peninsula, eastern Baffin Island.

Freshwater, geology, Auyuittuq

GODIN, G., and F.G. BARBER. 1980. Variability of the tide at some sites in the Canadian Arctic. Arctic, 33:30-37.

Various techniques are used to detect the possible distortion of the tide by the presence of ice cover at some gauging sites in the Canadian Arctic.

Marine environment, sea ice

HALL, E. (Editor). 1988. Caribou in the Northwest Territories. Department of Renewable Resources, Government of the Northwest Territories, Yellowknife, Northwest Territories. In press.

Contains a chapter on the caribou populations of Baffin Island.

Fauna

HALLER, A.A. 1967. A human geographical study of the hunting economy of Cumberland Sound, Baffin Island, N.W.T. M.A. thesis, McGill University, Montreal, Quebec. 104 pp.

Study describes the physical, biological and cultural factors which vary seasonally and therefore determine both the manner and success of seal hunting at a given time in Cumberland Sound. On the basis of data collected in 1966, hunting is found to be most efficient during the breakup, i.e. spring season. [A.D. Revill Associates 1975]

General, fauna, resource harvest, marine environment

HANCOCK, L. 1988. Unpredictable Auyuittuq. Northwest Explorer, 7(1):51-55.

Describes an 8-day backpacking trek through Pangnirtung Pass. Includes brief information on the park facilities, accessibility, weather, ice conditions.

Popular, general, Auyuittuq

HANTZSCH, B.A. 1913. Beobachtungen uber die Saugetiere von Baffinsland. / Observations on the mammals of Baffin Island. Sitzungsberichte der Gesellschaft naturforschender Freunde zu Berlin, 2:141-160. (Manuscript translation by M.B.A. and R.M. Anderson, 1927)

Presents observations of the reindeer, lemmings, wolves, hares, foxes, walrus, various seals and the white whale from Cumberland Sound to Foxe Channel.

Fauna

HANTZSCH, B.A. 1914. Ornithologisches Tagebuch. Aufzeichnungen wahrend einer Reise in Baffinland./ Ornithological Journal. Notes during a journey in Baffin Island. Sitzungsberichte der Gesellschaft naturforschender Freunde zu Berlin, 4:129-165. (Manuscript translation by M.B.A. and R.M. Anderson, 1927)

Contains unrevised notes on thirty-seven species of birds from the author's expedition from Cumberland Sound across Baffin Island to Foxe Basin. [A.D. Revill Associates 1975]

Fauna

HARE, F.K. 1950. Climate of the eastern Canadian Arctic and Subarctic, and its influence on accessibility. Ph.D. thesis, University of Montreal, Montreal, Quebec. 484 pp.

Climatology

HARE, F.K., and M.R. MONTGOMERY. 1949. Ice, open water, and winter climate in the eastern Arctic of North America: Parts I, II. Arctic, 2:79-89.

Results of research on the climatology of eastern Canada are discussed.

Part I: Hare, F.K. Distribution of winter temperature over the eastern Arctic and Sub-arctic.

From climatic data for Canadian and Greenland arctic, 1940-48, the author presents new air temperature maps, and evidence of the freezing over of Hudson Bay after January; discusses the open water bodies as 'gulfs of warmth' in Davis Strait-Baffin Bay, Hudson Strait and Hudson Bay.

Part II: Montgomery, M.R. The pattern of winter ice. The author summarizes present knowledge of winter conditions in each of the 'gulfs of warmth'. [Andrews and Andrews 1980]

Climatology, sea ice, marine environment

HARINGTON, C.R. 1962. Polar bear study: east coast of Baffin Island, 1961. Arctic Circular, 15:21-24.

Very briefly describes the fieldwork undertaken to locate polar bear denning sites in the Clyde region from Scott Inlet to Cape Hooper. Includes information on denning and how to locate dens.

Fauna, marine environment

HARINGTON, C.R. 1968. Denning habits of the polar bear (Ursus maritimus Phipps). Canadian Wildlife Service Report Series Number 5. Ottawa, Ontario. 30 pp.

Presents data on denning habits of polar bears in the Canadian Arctic, gathered between 1961 and 1964, and relates them to the findings of other observers. Detailed descriptions of dens, duration and activities associated with denning are presented.

Fauna, marine environment

HARPER, K. no date. Historical survey of Baffin Island National Park. Unpublished paper.

General, human history, Auyuittuq

HARPER, K. 1972. Pangnirtung. Privately printed by author. Available from Peyton-Cressman Enterprises, Pangnirtung, Northwest Territories. 30 pp.

Concise account of the history of the Pangnirtung area.

Human history

HARPER, K. 1973. Baffin Island National Park: a wilderness preserved. North, 20(3):19-25.

Gives a description of the park, the marine and terrestrial mammals and birds living in and around the park, and hunting and fishing activities in the area. Includes descriptions of the early explorers, expeditions by Boas and Soper, R.C.M.P. and Canadian sovereignty, further exploration and settlement, park place names, and tourist potential.

Popular, general, Auyuittuq

HEGGIE, T. 1979. Natural areas of Canadian significance. In Proceedings of the Eighth Arctic Environment Workshop. Edited by S.J. Jones. Arctic Institute of North America, University of Calgary, Calgary, Alberta. pp. 44-60.

Describes and analyzes the concept of natural regions as applied to the selection of natural parks. Describes park proposals, the selection process, and the northern parks consultation program.

General

HINES, J., and S. MOORE. 1987. Progress report on the basic resource inventory, Auyuittuq National Park Reserve, 1986-87. Unpublished report to Parks Canada, Prairie Region, Winnipeg, Manitoba. 49 pp.

A brief report summarizing progress on biophysical mapping, review of literature and related information, and surveys of plant communities and wildlife habitat in the park.

General, flora, fauna, geology, Auyuittuq

HOLDSWORTH, G. 1979. Report to Parks Canada on the status of the Penny Ice Cap project. Parks Canada, Ottawa, Ontario. 4 pp.

Geology, Auyuittuq

HOLDSWORTH, G. 1982. Glaciological reconnaissance of an ice core drilling site, Penny Ice Cap, Baffin Island. National Hydrology Research Institute, Snow and Ice Division, Environment Canada, Calgary, Alberta. 25 pp. + appendices.

Geology, Auyuittuq

HOOD, P., and M. BOWER. 1975. Aeromagnetic reconnaissance of Davis Strait and adjacent areas. In Canada's Continental Margins and Offshore Petroleum Exploration. Edited by C. J. Yorath, E. Parker, and D. J. Glass. Canadian Society of Petroleum Geology Memoir, 4:433-451.

Summarizes geophysical results obtained from a low-level aeromagnetic reconnaissance of Davis Strait and adjacent areas. Demonstrates various kinds of geological information pertinent to petroleum exploration programs that can be deduced from magnetic surveys. Includes a reconnaissance of the Cumberland Sound.

Geology, marine environment

IVES, J.D. 1975. Delimitation of surface weathering zones in eastern Baffin Island, Northern Labrador and Arctic Norway: a discussion. Geological Society of America Bulletin, 86:1096-1100.

Discusses implications and associated problems with the hypothesis of Boyer and Pheasant (1974) that 3 district weathering zones existed in the fiord region of southeastern Baffin Island.

Geology

IVES, J.D. 1978. The maximum extent of the Laurentide Ice Sheet along the east coast of North America during the last glaciation. Arctic, 31:24-53.

This paper reviews the two opposing interpretations of the maximum extent of the Laurentide Ice Sheet and analyzes the frequently equivocal field evidence and the developments of thought responsible for them. A map of the author's conclusions regarding maximum ice limits is presented. [Andrews and Andrews 1980]

Geology

JACKSON, G.D. 1971. Operation Penny Highlands: south-central Baffin Island. Department of Energy, Mines, and Resources, Ottawa, Ontario. Geological Survey of Canada Paper 71-1A. Ottawa, Ontario. pp. 138-140.

A general description of reconnaissance mapping of the bedrock geology of Cumberland Peninsula.

Geology

JACKSON, G.D., and F.C. TAYLOR. 1972. Correlation of major Aphebian rock units in the northeastern Canadian Shield. Canadian Journal of Earth Sciences, 9:1650-1669.

Discusses the similarity of extensive Aphebian stratified rocks in northeastern Quebec, Baffin Island, Melville Peninsula, and the northeastern District of Keewatin.

Geology

JACOBS, J.D. 1973. Synoptic energy budget studies in the eastern Baffin Island - Davis Strait region. Ph.D. thesis, University of Colorado, Boulder, Colorado. 242 pp.

Reports the relationships between synoptic activity and its effect on snow and ice surfaces. An understanding of this relationship should provide the basis for predicting interannual and longer term trends in glacial conditions for the region.

Geology, sea ice, climatology

JACOBS, J.D. 1974a. Seasonal variations in temperatures and salinities of near-surface waters around Broughton Island, eastern Baffin Island. In Studies of climate and ice conditions in eastern Baffin Island, 1971-73. By J.D. Jacobs, R.G. Barry, R.S. Bradley, and R.L. Weaver. Institute of Arctic and Alpine Research Occasional Paper Number 9. University of Colorado, Boulder, Colorado. pp. 59-66.

Presents information on the relationship of sea ice to climate. Oceanographic measurements were taken from May to December 1973 at Broughton Island. Temperature and salinity profiles are included.

Climatology, marine environment

JACOBS, J.D. 1974b. Solar and atmospheric radiation data for Broughton Island, eastern Baffin Island, Canada, 1971-73. Institute of Arctic and Alpine Research Occasional Paper Number 11. University of Colorado, Boulder, Colorado. 15 pp.

Summary of radiation measurements and factors affecting global and net radiation at Broughton Island.

Climatology

JACOBS, J.D. 1975. Some aspects of the economy of the Eskimo community at Broughton Island, N.W.T., Canada, in relation to climatic conditions. Arctic and Alpine Research, 7:69-75.

Discusses the partial transition to an economy based on wages and local industry. Describes heating fuel consumption and harvest of seals in the community of Broughton Island for the period from 1971 to 1973. Includes information on income from furs and skins, the use of snowmobiles, and the effect of weather conditions on fuel consumption and seal harvest.

General, fauna, resource harvest, climatology

JACOBS, J.D., J.T. ANDREWS, R.G. BARRY, R.S. BRADLEY, R.L. WEAVER, and L.D. WILLIAMS. 1972. Glaciological and meteorological studies on the Boas Glacier, Baffin Island, for two contrasting seasons (1969-70 and 1970-71). In The role of snow and ice in hydrology. Proceedings of the UNESCO International Symposium in Banff, Alberta, 1972. International Association of Hydrological Sciences Publication, 107:371-382.

The results of mass and energy balance studies on the Boas Glacier are presented for two contrasting years. The contrast between the two ablation seasons is analyzed on the basis of synoptic circulation types and climatological parameters. [Andrews and Andrews 1980]

Climatology, geology, freshwater

JACOBS, J.D., and R.G. BARRY. 1972a. Air-sea interaction studies in Davis Strait (abstract). In EOS, Transactions of the American Geophysical Union, 53:387.

Climatology, marine environment

JACOBS, J.D., and R.G. BARRY. 1972b. Regional energy-budget studies in western Davis Strait, 1970-1972 (abstract). In EOS, Transactions of the American Geophysical Union, 53:1012.

Climatology, marine environment

JACOBS, J.D., R.G. BARRY, R.S. BRADLEY, and R.L. WEAVER. 1974. Studies of climate and ice conditions in eastern Baffin Island, 1971-73. Report to the office of Polar Programs, National Science Foundation, NSF GV-28218. Institute of Arctic and Alpine Research Occasional Paper Number 9. University of Colorado, Boulder, Colorado. 77 pp.

Preliminary results of climatological, glacial and sea ice studies conducted by the Institute of Arctic and Alpine Research in eastern Baffin Island, Davis Strait, and Baffin Bay. Emphasis is on sea ice conditions in relation to weather and climate. A short discussion of accumulation and ablation of the Boas Glacier is included.

Sea ice, climatology, geology

JACOBS, J.D., R.G. BARRY, B. STANKOV, and J. WILLIAMS. 1972. Short-term air-sea interactions and surface effects in the Baffin Bay-Davis Strait region from satellite observations. Final report to the Office of Polar Programs, National Science Foundation, NSF GV-28220. Institute of Arctic and Alpine Research Occasional Paper Number 4. University of Colorado, Boulder, Colorado. 80 pp.

A study of meteorological satellite data was undertaken for purposes of calculating surface energy budgets in relation to synoptic-term events in the Baffin Bay - Davis Strait region. An evaluation was made of presently available satellite data in comparison with surface and airborne measurements in the region.

Climatology, marine environment

JACOBS, J.D., R.G. BARRY, and R.L. WEAVER. 1975. Fast ice characteristics, with special reference to the eastern Canadian Arctic. Polar Record, 17:521-536.

This paper provides a broad picture of fast ice characteristics in the Canadian eastern Arctic. Micrometeorological measurements on the fast ice of Davis Strait near Broughton Island were conducted for four consecutive summers.

Sea ice, climatology

JACOBS, J.D., and C.Y.Y. LEUNG. 1980. Paleoclimatic implications of topoclimatic diversity in arctic Canada. In Quaternary Paleoclimate. Edited by W.C. Mahaney. Geo Abstracts, Norwich, England. pp. 63-75.

Field investigations in coastal areas of moderate relief on Baffin Island have provided the empirical basis for modeling and mapping topoclimates in relative terms. Maps of incident solar radiation and surface windspeed, based on 12 years of records were used together to show relative topoclimatic differences across Broughton Island.

Climatology, geology

JACOBS, J.D., and J.P. NEWELL. 1979. Recent year-to-year variations in seasonal temperatures and sea ice conditions in the eastern Canadian arctic. Arctic, 32:345-354.

Relationships between climatic parameters and sea ice are examined in order to explain the year-to-year variations in seasonal temperatures and sea ice conditions.

Climatology, sea ice

JACOBS, J.D., and G. SABO III. 1978. Environments and adaptations of the Thule culture on the Davis Strait coast of Baffin Island. Arctic and Alpine Research, 10:595-615.

Archaeological and environmental data are used to identify and interpret aspects of the settlement patterns exhibited by the Thule culture sites along a portion of the Davis Strait coast of Baffin Island.

Human history, climatology, Auyuittuq

JAMES, R.B. 1972. An unexpected alpine paradise. North, 19(2):23-29.

The Inuit village of Pangnirtung and surrounding area are described by a member of a mountaineering expedition. Photos of the area are included.

General

JOHNSON, R.G., and J.T. ANDREWS. 1979. Rapid ice-sheet growth and initiation of the last glaciation. Quaternary Research, 12:119-134.

Discusses the causes of rapid ice sheet growth and initiation of the last glaciation.

Geology, climatology

JONKEL, C., E. LAND, and R. REDHEAD. 1978. The productivity of polar bears (Ursus maritimus) in the southeastern Baffin Island area, Northwest Territories. Canadian Wildlife Service Progress Notes Number 91. 7 pp.

Provides data on the productivity of polar bears denning on the Meta Incognita, Hall, and Cumberland peninsulas of southeastern Baffin Island.

Fauna, marine environment

JORDAN, F., and H.J.A. NEU. 1981. Ice flow movement in Baffin Bay and Davis Strait from satellite pictures. Bedford Institute of Oceanography, Department of

Fisheries and Oceans, Dartmouth, Nova Scotia. Report Series BI-R-81-4. 23 pp.

For the period from 1978 to 1979, movement of individual ice floes was tracked and velocity patterns were obtained using NOAA 5 satellite pictures in the visual and infra-red modes.

Sea ice, marine environment, climatology

JORDAN, F., and H.J.A. NEU. 1982. Ice drift in southern Baffin Bay and Davis Strait. Atmosphere-Ocean, 20:268-275.

Using satellite pictures of Baffin Bay and Davis Strait, ice-floes were tracked in order to give weekly surface velocities for 1978-1979. The approximate location of the edge of the ice sheet was also determined.

Sea ice, climatology

KEEN, R.A. 1978. The response of Baffin Bay ice conditions to changes in atmospheric circulation patterns. In Fourth International Conference on Port and Ocean Engineering under arctic conditions. Edited by D.B. Muggeridge. Memorial University of Newfoundland, St. John's, Newfoundland. Volume II. pp. 963-971.

Discusses variation in ice conditions as a response to changes in the largest scale atmospheric circulation patterns. Implies that any scheme capable of predicting even the simplest features of the global circulation could be applied to long-term regional ice forecasting.

Sea ice, climatology

KEEN, R.A. 1980. Temperature and circulation anomalies in the eastern Canadian Arctic, summer 1946-76. Institute of Arctic and Alpine Research Occasional Paper Number 34. University of Colorado, Boulder, Colorado. 159 pp.

Surface temperature and pressure, and upper air data for the Baffin region, the Arctic, and the extratropical Northern Hemisphere are analyzed in order to establish the nature and significance of the regional-global summer climate and circulation links.

Climatology

KELIHER, T.E., G.E. PIATT, and T.T. GIBSON. 1978. A climatological study of the southern Davis Strait. Unpublished report prepared by NORDCO Limited for Esso Resources Canada Limited, Calgary, Alberta. 56 pp.

The results of a study that defines the frequency and nature of meteorological conditions likely to have a significant effect on offshore drilling operations in southern Davis Strait are presented.

Climatology

KEMP, D. 1972. Ghost settlement included in Baffin Island National Park. North, 19(5):12-13.

The history of settlements on the Kivitoo Peninsula is described.

Popular, general, human history, Auyuittuq

KEMP, W.B. 1971. The flow of energy in a hunting society. Scientific American, 224(3):104-115.

Presents the results of a study of the patterns of energy flow in an isolated Inuit village (Lake Harbour). The different patterns of energy use by two households, one "modern" and the other "traditional", are compared.

General, fauna, human history

KEMP, W.B. 1973. Archaeological Study: Baffin Island National Park. National and Historic Parks Branch Manuscript. Ottawa, Ontario. 29 pp.

Preliminary report on the archaeological and cultural-historical research undertaken during the summer and fall of 1973, primarily along the north shore of Baffin Island National Park.

Human history, Auyuittuq

KEMP, W.B. 1975. Archaeological survey - north coast Auyuittuq National Park Reserve. Archaeological Research, Parks Canada, Prairie Region, Winnipeg, Manitoba.

Human history, Auyuittuq

KEMP, W.B. 1976. Inuit land use in south and east Baffin Island. In Milton Freeman Research Limited, Inuit Land Use and Occupancy Project. Department of Indian and Northern Affairs, Ottawa, Ontario. Volume I: Land Use and Occupancy. pp. 125-151.

Contains a brief history of each settlement in the area. Presents the Inuit view relating to land use and occupation, including information on the time of year, type of hunting and specific locations for seal, walrus, whale, polar bear, caribou, fox trapping, wildfowl and their eggs, and fishing.

Fauna, resource harvest

KEMPER, J.B. 1980. History of use of narwhal and beluga by Inuit in the Canadian eastern Arctic including changes in hunting methods and regulations. Report of the International Whaling Commission, 30:481-492.

Discusses historical changes in the harvest and use of beluga and narwhal in the eastern Arctic. Concerns about over-exploitation of these populations are expressed.

Fauna, marine environment, resource harvest

KENT, G.R. 1972. The attached marine algae of Pangnirtung Fiord, Baffin Island: morphology, systematics, descriptive ecology and distribution. M.Sc. thesis, University of Massachusetts, Amherst, Massachusetts. 55 pp.

Results from an investigation of the benthic algae of Pangnirtung Fiord in 1970 are presented. Includes an annotated list of species with information on plant size, notable morphological features, absence or presence of reproductive features, type of substrate, relative abundance and collection site. Discusses the occurrence of species, and comparison with littoral and sublittoral floras of more southern and northern regions.

Flora, marine environment

KOERNER, R.M. 1980. The problem of lichen-free zones in arctic Canada. Arctic and Alpine Research, 12:87-94.

The origin of lichen-free areas in the High Arctic has been attributed to lichen-kill under permanent snowfields developed during the Little Ice Age. The inconsistencies in this hypothesis are discussed and an alternative explanation is proposed.

Climatology, geology

KUMLIEN, L. 1879. Contributions to the natural history of Arctic America made in connection with the Howgate Polar expedition, 1877-1879. United States National Museum Bulletin 15. 179 pp.

Although the author is primarily concerned with the material culture and physical characteristics of the people, he has also recorded their traditions and described the annual round of life on Baffin Island. The author also discusses the impact that the European whalers have had on the people. Also of interest is Kumlien's description of the mammals and their habits which constitute a large part of the native diet. [A.D. Revill Associates 1975]

General, human history, fauna

LAFARGE-ENGLAND, C. 1975. A contribution to the botany of Maktak Fiord - Broughton Island area of the Cumberland Peninsula. Unpublished report prepared for Parks Canada by Institute of Arctic and Alpine Research, University of Colorado, Boulder, Colorado.

Flora, Auyuittuq

LAMONT, J. 1978. Walking in the land that never melts. Summit, April-May 1978.

Popular, Auyuittuq

LAMONT, J. 1980. Pangnirtung: gateway to our only arctic park. Canadian Geographic, 100(4):34-37.

Account of a solitary 60-mile trek through Auyuittuq. Includes a general description of the park along with very brief notes on fauna, geology, climate, park development.

Popular, general, Auyuittuq

LAND, E.M. 1977. The narwhal and the walrus: a problem of ivory. In Canada's threatened species and habitats. Edited by T. Mosquin and C. Suchal. Canadian Nature Federation, Ottawa, Ontario. pp. 79-81.

Discusses the major problems that are placing the future of the narwhal and walrus in jeopardy and the reasons for this situation. Presents recommendations put forth by a federal-territorial working group. Also includes author's recommendations and suggestions for future research.

Fauna, marine environment, resource harvest

LANGFORD, R.E. 1962. The Cambridge Arctic Canada Expedition, 1961, to Cumberland Peninsula, Baffin Island. Arctic Circular, 14:49-52.

Briefly recounts experiences of his six-man mountaineering party which crossed Cumberland Peninsula via Pangnirtung Pass in July-August 1961.

General, popular, Auyuittuq

LANGFORD, R.E. 1965. Cambridge Arctic Canada Expedition, 1961, to Cumberland Peninsula, Baffin Island. Unpublished report to Geographical Branch, Department of Mines and Technical Surveys, Government of Canada.

Describes a mountaineering/scientific expedition by six Cambridge students to the mountains located between Pangnirtung and Kingnait Passes. In addition to climbing seven virgin peaks, the party conducted work on physiology, geology, and surveying. Included are accounts of the local history, a terrain description, weather and biological observations and a brief account of life in an Inuit village at Pangnirtung. [Andrews and Andrews 1980]

General, Auyuittuq

LAWSON, N.J. 1984. Native peoples and national parks: the case of Auyuittuq National Park Reserve and the proposed Ellesmere Island National Park Reserve, N.W.T. B.Sc. Honors thesis, Trent University, Peterborough, Ontario. 148 pp.

Examines the relationship between Auyuittuq and the Inuit of Pangnirtung and Broughton Island. Major concerns are environmental and socio-economic. Results are examined to determine the possible effects of the establishment of a park on Ellesmere Island to the Inuit of Grise Fiord and Resolute Bay.

General, Auyuittuq

LEE, J., and R.E. SCHWEINSBURG. 1982. Polar bear tagging, Clyde River and Broughton Island, N.W.T., spring 1981. N.W.T. Wildlife Service Manuscript Report. 21 pp.

Summarizes studies of polar bear populations near the park.

Fauna, marine environment

LEE, J., and R.E. SCHWEINSBURG. 1985. Polar bear tagging, Clyde River/Broughton Island, April, May 1984. N.W.T. Wildlife Service Manuscript Report. 24 pp.

Summarizes studies of polar bear populations near the park.

Fauna, marine environment

LEE, R.K.S. 1980. A catalogue of the marine algae of the Canadian Arctic. National Museum of Natural Sciences Publications in Botany Number 9. National Museums of Canada, Ottawa, Ontario. 82 pp.

Specimens of benthic marine algae are identified and catalogued with selected literature references, habitat notes, frequency of occurrence, a list of collection sites and herbarium reference numbers for voucher specimens. Also contains a separate geographic index.

Flora, marine environment

LIND, E.K., J.T. ANDREWS, and J. STRAVERS. 1981. Description and origin of the fiords along the eastern coast of Baffin Island, N.W.T. Geological Society of America, Abstracts with Programs, 13:498.

Examines fiord morphology within the context of tectonic and glacial-erosional patterns. Describes the characteristics of 227 Baffin Island fiords ≥5 km long.

Geology

LIVINGSTON, D.L. 1937. The whale industry in Cumberland Sound, October 1937. Canadian Government mimeographed report to Department of Fisheries.

Fauna, marine environment, resource harvest

LOCKE, W.W. III. 1978a. Glaciation limits on Cape Dyer, NE Cumberland Peninsula, Baffin Island. Geological Society of America, Abstracts with Programs, 10:445-446.

Geology

LOCKE, W.W. III. 1978b. Paleomagnetism of a raised marine section, Cape Dyer, N.W.T., Canada. American Quaternary Association 5th Biennial Meeting, University of Alberta, Edmonton, Abstracts. p. 220.

Geology

LOCKE, W.W. III. 1979a. Etching of hornblende grains in arctic soils: an indicator of relative age and paleoclimate. Quaternary Research, 11:197-212.

Discusses etching of hornblende grains in arctic soils as an indicator of relative age and paleoclimate. Includes a discussion of the factors affecting the degree and rate of etching, and the potential of this method as a relative dating technique. Soils examined in this study are located east and west of the head of Pangnirtung Fiord and south of Kingnait Fiord. A climatic reconstruction of the Cumberland Peninsula is presented.

Soils, geology, climatology

LOCKE, W.W. III. 1979b. Paleoclimatic gradients as indicated by soil development (hornblende etching) on tills in the eastern Canadian Arctic. Geological Society of America, Abstracts with Programs, 11:467.

Discusses the indication of paleoclimatic gradients through examination of soil development on central Cumberland Peninsula.

Climatology, soils, geology

LOCKE, W.W. III. 1980. The Quaternary geology of the Cape Dyer area, southeasternmost Baffin Island, Canada. Ph.D. thesis, University of Colorado, Boulder, Colorado. 348 pp.

Geology, climatology

LOEWE, F. 1971. Considerations on the origin of the Quaternary ice sheet of North America. Arctic and Alpine Research, 3:331-344.

Discusses possible theories for the origin of the Quaternary ice sheet of North America.

Geology

LOKEN, O.H. 1966. Baffin Island refugia older than 54,000 years. Science, 153:1378-1380.

Radiocarbon determinations of marine shells found at Aston Delta and Cape Christian suggest the existence of unglaciated refugia between fiords occupied by outlet glaciers.

Geology, marine environment

LOKEN, O.H. 1972. Ice problems in the arctic coastal zone. In Coastal Zone, Proceedings of a seminar held at the Bedford Institute of Oceanography, Dartmouth, Nova Scotia. Department of the Environment, Water Management Service, Volume I. Selected background papers. Ottawa, Ontario pp. 57-62.

Discusses arctic ice problems in the context of coastal zone management. Includes a list of potential problems in ice-infested waters in and around the Canadian Arctic Archipelago, the Beaufort Sea Coast, Hudson Bay and Hudson Strait.

Sea ice

LOKEN, O.H. 1980. The Eastern Arctic Marine Environmental Study Program. In POAC 79, Fifth International Conference on Port and Ocean Engineering Under Arctic Conditions. University of Trondheim and Norwegian Institute of Technology, Trondheim, Norway. Volume III. pp. 139-152.

Describes the Eastern Arctic Marine Environmental Study Program which was started in late 1977 for the purpose of completing an environmental assessment prior to opening the area along the east coast of Baffin Island and eastern Lancaster Sound to exploratory drilling.

General, marine environment, environmental impact

LOKEN, O.H., and D.A. HODGSON. 1971. On the submarine geomorphology along the east coast of Baffin Island. Canadian Journal of Earth Sciences, 8:185-195.

A reconnaissance survey was made of the submarine geomorphology along the east coast of Baffin Island using an echo sounder. The survey focused on: (1) the continental slope, (2) the continental shelf, and (3) the fiords. [Andrews and Andrews 1980]

Geology, marine environment

LOUGHREY, A.G. 1959. Preliminary investigations of the Atlantic walrus (Odobenus rosmarus rosmarus Linnaeus). Canadian Wildlife Service, Wildlife Management Bulletin Series 1, Number 14. Department of Indian and Northern Affairs, Ottawa, Ontario. 123 pp.

Contains information on taxomony, geographic distribution, morphology and anatomy, reproduction, feeding habits, behaviour, predators, hunting, and management.

Fauna, marine environment, resource harvest

LUBINSKY, I. 1980. Marine bivalve molluscs of the Canadian central and eastern Arctic: faunal composition and zoogeography. Canadian Bulletin of Fisheries and Aquatic Sciences 207. 111 pp.

Describes the history of faunistic exploration, systematic descriptions of bivalve molluscs, zoogeography and zoogeographic subdivision, and relations of the Canadian arctic fauna to neighbouring arctic faunas.

Fauna, marine environment

MACKAY, D.K., and O.H. LOKEN. 1974. Arctic hydrology. In Arctic and alpine environments. Edited by J.D. Ives and R.G. Barry. Methuen, London. pp. 111-132.

Discusses surface water hydrology, river and lake ice conditions, groundwater and water management.

Freshwater, climatology

MACLAREN ATLANTIC LIMITED. 1977a. Biological literature review of the Davis Strait region. Unpublished report prepared for Imperial Oil Limited. Arctic Petroleum Operators' Association Project Number 126.

A useful review of birds, mammals, fish, marine flora, and invertebrates of the Davis Strait region. Nutrient cycles and productivity are also discussed.

Fauna, flora, marine environment, environmental impact

MACLAREN ATLANTIC LIMITED. 1977b. Report on cruise 77-1, February, 1977: Environmental aspects of the cruise to Davis Strait and the Labrador coast. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited. May, 1977.

Presents the distribution of mammals and birds in the area, relative to the ice front. Salinity, temperature, plant nutrients, chlorophyll, phytoplankton, zooplankton, fish eggs and larvae, and benthic samples and observations were collected.

Marine environment, fauna, flora

MACLAREN ATLANTIC LIMITED. 1977c. Report on the Davis Strait aerial survey 77-1. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 134. December 1977.

Reports results of aerial surveys of mammal and bird distribution and abundance. Surveys were carried out between March 30 and April 3.

Fauna, marine environment

MACLAREN ATLANTIC LIMITED. 1977d. Report on ice and meteorological observations in the Davis Strait during April, May and June 1977. Unpublished report prepared by MacLaren Atlantic Limited, Dartmouth, Nova Scotia for Imperial Oil Limited, Calgary, Alberta.

Reports results of ice and meteorological observations from a cruise in Davis Strait in April, May, June 1977. Includes information on ice floe concentration and thickness, predominant types of ice, iceberg concentration and size, wind speed and direction, air and surface water temperatures.

Climatology, sea ice, marine environment

MACLAREN ATLANTIC LIMITED. 1977e. Report on preliminary nearshore environmental studies in southeast Baffin Island. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 138. December 1977.

Reports results of a study of marine mammals, birds, fish, zooplankton, and benthic macrophytes and fauna. Presents limited information on the biotic communities at Resolution Island, Edgell Island, Middle Savage Island, Loks Land, Cape Farrington and Brevoort Island.

Marine environment, fauna

MACLAREN ATLANTIC LIMITED. 1977f. Report on primary data collected for the 1977 Davis Strait biological programme and analyzed prior to December, 1977. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 138. December 1977.

Presents distribution maps from aerial surveys flown between June and September 1977 for seabirds in Davis Strait area.

Fauna, marine environment

MACLAREN ATLANTIC LIMITED. 1978a. Report on aerial surveys 77-2, 77-3, 77-4: studies of seabirds and marine mammals in Davis Strait, Hudson Strait and Ungava Bay. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Numbers 134 and 138. February, 1978.

Contains results of aerial surveys of both seabirds and marine mammals in the Davis Strait, Hudson Strait and Ungava Bay regions. Includes data on abundance, distribution, species composition and ecological relationships of seabirds and marine mammals. Potential impact situations are explored and recommendations for further research are also presented.

Fauna, marine environment

MACLAREN ATLANTIC LIMITED. 1978b. Appendix A: seabird distribution maps for aerial surveys 77-2, 77-3, 77-4: studies of seabirds and marine mammals in Davis Strait, Hudson Strait and Ungava Bay. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Numbers 134 and 138. February, 1978.

Contains distribution maps from aerial surveys flown between June and September 1977.

Fauna, marine environment

MACLAREN ATLANTIC LIMITED. 1978c. Report on biological studies, cruises 77-2 and 77-3, April - June 1977 in the Davis Strait. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 134. May, 1978.

Reports results from studies of marine mammals, marine birds, fish, fish eggs and larvae, zooplankton, phytoplankton and supporting nutrient and physical oceanographic data.

Fauna, marine environment

MACLAREN ATLANTIC LIMITED. 1978d. Appendix to report on biological studies, cruises 77-2 and 77-3, April - June 1977 in the Davis Strait. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 134. May, 1978.

Contains a complete record of all the primary biological and related data collected during cruises 77-2 and 77-3.

Fauna, marine environment

MACLAREN ATLANTIC LIMITED. 1978e. Report on biological studies, offshore cruise 77-4 through 77-7, July - December, 1977, in the Davis Strait. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited. Arctic Petroleum Operators' Association Project Number 138. May, 1978.

Reports results from studies of marine mammals, marine birds, fish, fish eggs and larvae, zooplankton, phytoplankton and supporting nutrient and physical oceanographic data.

Fauna, marine environment

MACLAREN ATLANTIC LIMITED. 1978f. Appendix to report on biological studies, offshore cruise 77-4 through 77-7, July-December, 1977, in the Davis Strait. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited. Arctic Petroleum Operators' Association Project Number 138. May, 1978.

Contains a complete record of all the primary biological and related data collected during cruises 77-4, 77-5, 77-6, 77-7 to Davis Strait in 1977.

Fauna, marine environment

MACLAREN ATLANTIC LIMITED. 1978g. Report on Inuit natural resource use in southeast Baffin region. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Calgary, Alberta, Arctic Petroleum Operators' Association Project Number 138. March, 1978.

Describes patterns of Inuit natural resource use (marine and coastal mammals, fish and birds). Contains information on the biology of exploited animals, historic and present patterns of resource use, recreational use of animal resources, and details designated sites of special interest.

Fauna, human history, resource harvest, marine environment

MACLAREN ATLANTIC LIMITED. 1978h. Revised biological literature review of the Davis Strait region. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 138. January 1978.

Reviews the scientific information available on the biological resources of the Davis Strait region. Information is presented in five sections: plankton, benthos, fish and fisheries, birds and mammals.

Flora, fauna, marine environment

MACLAREN MAREX INCORPORATED. 1978. Report on marine benthic invertebrates of the southern Davis Strait and Ungava Bay. Unpublished report prepared for Imperial Oil Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 138. July 1978.

Contains the results of analyses of benthic invertebrate samples collected on cruises 77-4 and 77-5 in the southern Davis Strait and Ungava Bay in August - September 1977. Reports on the physical environment, faunal distribution and abundance, benthic diversity, and bivalve productivity, age distribution and growth rates.

Marine environment, fauna

MACLAREN MAREX INCORPORATED. 1979a. Report on aerial surveys of marine mammals and birds in southern Davis Strait and eastern Hudson Strait in March, 1978. Unpublished report prepared for Esso Resources Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 146. January, 1979.

Reports results of late winter aerial surveys for marine mammals and birds carried out in Davis Strait in March, 1978. Identifies distributions of wintering animals and presents an estimate of the abundance of hooded seals in the Davis Strait whelping patch for the second year.

Fauna, marine environment

MACLAREN MAREX INCORPORATED. 1979b. Report on aerial surveys of birds and marine mammals in the southern Davis Strait between April and December, 1978. Unpublished report prepared for Esso Resources Canada Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 146. Volume I, Birds; Volume II-A and Volume II-B, Bird distribution maps. February, 1979.

Detailed aerial surveys of birds conducted south of the park area.

Fauna, marine environment

MACLAREN MAREX INCORPORATED. 1979c. Report on aerial surveys of birds and marine mammals in the southern Davis Strait between April and December, 1978. Unpublished report prepared for Esso Resources Canada Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 146. Volume III, Marine Mammals. February 1979.

Detailed aerial surveys of marine mammals conducted south of the park area.

Fauna, marine environment

MACLAREN MAREX INCORPORATED. 1979d. Report on primary productivity studies in the water column and pack ice of the Davis Strait April, May and August, 1978. Unpublished report prepared for Indian and Northern Affairs and Supply and Services, Canada.

Measurements of primary productivity and light in the water column and in the pack ice of Davis Strait were carried out in April-May and August 1978.

Flora, marine environment, climatology

MACLAREN MAREX INCORPORATED. 1979e. Report on Cruise 78-1: environmental studies in the pack ice zone of Davis Strait. Unpublished report prepared for Esso Resources Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 146. January, 1979.

Reports on a study of the microbiota of the open water of Davis Strait during the spring phytoplankton bloom and a study of the ice community to assess its role in the Davis Strait ecosystem. Collections and observations of marine fish, birds and mammals were carried out during this cruise.

Marine environment, flora, fauna, sea ice

MACLAREN MAREX INCORPORATED. 1979f. Appendix to report on cruise 78-1: environmental studies in the pack ice zone of Davis Strait. Unpublished report prepared for Esso Resources Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 146. January, 1979.

Appendix A: Mulitvariate Statistical Analysis of Phytoplankton Species Distribution.
Appendix B: Zooplankton Production Study
Appendix C: Primary data tables

Marine environment, flora, fauna, sea ice

MACLAREN MAREX INCORPORATED. 1979g. Report on cruise 78-2, August 1978: environmental studies in the Davis Strait. Unpublished report prepared for Esso Resources Canada Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 146. February, 1979.

Presents results of a descriptive survey of the physical, chemical (nutrient), and biological (phytoplankton) oceanography of the area in order to characterize the microbiota of Davis Strait during late summer.

Marine environment, flora, sea ice

MACLAREN MAREX INCORPORATED. 1979h. Report on feeding studies of marine mammals and birds from the southern Davis Strait region. Unpublished report prepared for

Esso Resources Canada Limited, Aquitaine Company of Canada Limited, and Canada Cities Services Limited, Arctic Petroleum Operators' Association Project Number 146. February, 1979.

Reports on the analysis of stomach contents of marine mammals and seabirds from Davis Strait. Also presents brief literature reviews for each of the species including information on general ecology and known food habits in Davis Strait.

Fauna, marine environment

MACLAREN MAREX INCORPORATED. 1980. Aerial monitoring of marine birds and mammals: the 1979 offshore drilling programme near southeast Baffin Island. Unpublished report prepared for Esso Resources Canada Limited and Aquitaine Company of Canada Limited, April, 1980.

Presents results of 1979 aerial survey programme of marine birds and mammals in southwest Davis Strait during offshore drilling operations. Focuses on Thick-billed Murre migration through Hudson Strait and the beluga whale migration out of Cumberland Sound.

Fauna, marine environment, environmental impact

MACLEAN, B. 1978. Marine geological-geophysical investigations in 1977 of the Scott Inlet and Cape Dyer-Frobisher Bay areas of the Baffin Island continental shelf. Geological Survey of Canada Paper 78-1B. Ottawa, Ontario. pp. 13-20.

Presents results of geological-geophysical investigations undertaken in 1977 in the Scott Inlet and the Cape Dyer-Frobisher Bay areas of the Baffin Island shelf.

Geology, marine environment

MACLEAN, B., and R.K.H. FALCONER. 1979. Geological/geophysical studies in Baffin Bay and Scott Inlet-Buchan Gulf and Cape Dyer-Cumberland Sound areas of the Baffin Island Shelf. Geological Survey of Canada Paper 79-1B. Ottawa, Ontario. pp. 231-244.

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Presents results of marine geological and geophysical studies on the Baffin Island shelf in 1978 by the Atlantic Geoscience Centre. The studies were concentrated in the Scott Inlet oil seep area and in the Bucan Gulf area on the northeastern part of the shelf, and between Cape Dyer and Cumberland Sound on the southeastern part of the shelf. [Andrews and Andrews 1980]

Geology, marine environment

MACLEAN, B., L.F. JANSA, R.K.H. FALCONER, and S.P. SRIVASTAVA. 1977. Ordovician strata on the southeastern Baffin Island shelf revealed by shallow drilling. Canadian Journal of Earth Sciences, 14:1925-1939.

Cores of the bedrock underlying the southeastern Baffin Island shelf were recovered by underwater electric rock core drill at four localities. Seismic reflection and magnetic profiles have been used for correlation of the corehole data and to outline the geology of part of the southeastern Baffin Island shelf. [Andrews and Andrews 1980]

Geology, marine environment

MACPHERSON, A.H. 1963. The caribou of Baffin Island, an unknown quantity? A brief review of published and manuscript data on numbers and distribution. Canadian Wildlife Service, Department of Environment, Ottawa, Ontario.

Reviews information on the numbers and distribution of the Baffin Island caribou population.

Fauna

MACPHERSON, A.H. 1964. A northward range extension of the red fox in the eastern Canadian Arctic. Journal of Mammalogy, 45:138-140.

Describes the spread of the red fox within Baffin Island during the last half century and the recent continuation of this movement to Cornwallis and Ellesmere Islands.

Fauna

MANSFIELD, A.W. 1958. The biology of the Atlantic walrus Odobenus rosmarus rosmarus (Linnaeus) in the eastern Canadian Arctic. Fisheries Research Board of Canada Report Series 653. Ottawa, Ontario. 146 pp.

Fauna, marine environment

MANSFIELD, A.W. 1959. The walrus in the Canadian Arctic. Fisheries Research Board of Canada Circular 2. Ottawa, Ontario. 13 pp.

Contains information on the distribution, feeding habits, growth, reproduction, hunting, mortality, and regulations for protection of walrus in the eastern Arctic.

Fauna, marine environment, resource harvest

MANSFIELD, A.W. 1966. The walrus in Canada's Arctic. Canadian Geographical Journal, 72:88-95.

Discusses past and present distribution, feeding, reproduction, growth, hunting and harvesting.

Fauna, marine environment, resource harvest

MANSFIELD, A.W. 1967a. Distribution of the harbour seal, Phoca vitulina Linnaeus, in Canadian arctic waters. Journal of Mammalogy, 48:249-257.

Discusses the distribution of the harbour seal in Canadian arctic waters from 55°N in Hudson Bay and northern Quebec to 79°N on Ellesmere Island.

Fauna, marine environment

MANSFIELD, A.W. 1967b. Seals of arctic and eastern Canada. Fisheries Research Board of Canada Bulletin 137. 35 pp.

Brief account of seal distribution and habits.

Fauna, marine environment

MANSFIELD, A.W. 1970. Population dynamics and exploitation of some arctic seals. In Antarctic ecology. Edited by M.W. Holdgate. Academic Press, New York, New York. Volume 1. pp. 429-446.

Presents a detailed discussion of ringed and harp seals in the eastern Arctic. Contains information on harp seal migration, their life cycle and sustainable yield, and contains information on ringed seal distribution and factors limiting their distribution and abundance. Discusses the techniques of population assessment for both species.

Fauna, marine environment, resource harvest

MANSFIELD, A.W. 1971. Occurrence of the bowhead or Greenland right whale (Balaena mysticetus) in Canadian arctic waters. Journal of the Fisheries Research Board of Canada, 28:1873-1875.

Contains information on the past and present status, distribution and abundance of the bowhead whale in Canadian arctic waters.

Fauna, marine environment

MANSFIELD, A.W. 1973. The Atlantic walrus Odobenus rosmarus in Canada and Greenland. In International Union for the Conservation of Nature and Natural Resources Supplementary Paper Number 39. Morges, Switzerland. pp. 69-79.

Discusses walrus distribution, behaviour affecting distribution, reproduction, growth, and resource use.

Fauna, marine environment

MANSFIELD, A.W. 1975. Marine ecology in arctic Canada. In Proceedings of the circumpolar conference on northern ecology. National Research Council of Canada, Ottawa, Ontario. Section II. pp. 27-47.

Discusses present knowledge of the distribution, abundance, and composition of the marine ecosystem in arctic Canada. Future research requirements are discussed.

Marine environment, fauna, flora

MANSFIELD, A.W., D.E. SERGEANT, and T.G. SMITH. 1975. Marine mammal research in the Canadian Arctic. Canadian Fisheries and Marine Service Technical Report Number 507. 23 pp.

Summarizes past and present research, future research needs, and gaps in our knowledge of arctic pinnipeds and cetaceans.

Fauna, marine environment

MANSFIELD, A.W., T.G. SMITH, and B. BECK. 1975. The narwhal, Monodon monoceros, in eastern Canadian waters. Journal of the Fisheries Research Board of Canada, 32:1041-1046.

On the biology of the narwhal in eastern Canadian arctic waters. Includes information on distribution, numbers, hunting pressure, age, feeding, growth, and reproduction.

Fauna, marine environment, resource harvest

MARKLEY, G. 1978. Auyuittuq - the place that does not melt. Summit, April-May 1978.

General, Auyuittuq

MARSHALL, P. 1978. Initiation to Baffin... studying the land, knowing the land. North, 25(5):18-23.

Account of a trip to Cumberland Sound for geologic fieldwork in the summer of 1972. Includes a general description of the areas travelled.

General, popular

MASTERTON, J.M., and B.F. FINDLAY. 1976. The climate of Auyuittuq National Park, Baffin Island, Northwest Territories. Meterological Applications Branch, Atmospheric Environment Service, Toronto, Ontario. Project Report Number 22. 109 pp.

Summary of meteorological data from six weather stations near Auyuittuq National Park Reserve. Discusses climatic controls, pure and applied elements, and park management. An aid to visitors, managers, and planners.

Climatology, Auyuittuq

MAXWELL, J.B. 1980. The climate of the Canadian Arctic Islands and adjacent waters, Volume 1. Atmospheric Environment Service, Environment Canada, Hull, Quebec. 531 pp.

An accumulation of climate information covering the Canadian Arctic Islands and their adjacent waters. Areas of discussion include an introduction to climatic controls, temperature and wind (and their combined effects), precipitation, and snow cover.

Climatology

MAXWELL, J.B. 1981. Climatic regions of the Canadian Arctic Islands. Arctic, 34:225-240.

The characteristics of five climatic regions and their associated subregions are described.

Climatology

MAXWELL, J.B. 1982. The climate of the Canadian Arctic Islands and adjacent waters, Volume 2. Atmospheric Environment Service, Environment Canada, Hull, Quebec. 589 pp.

Presentation and discussion of climatological data and climate-influencing factors. Areas of discussion include sea state (eg. currents, temperatures, etc.), aviation climate (eg. cloud cover, turbulence, etc.), sea ice, inversions, pollution control, synoptic systems, and climatic regions.

Climatology, marine environment, sea ice

MAYES, R.G. 1975. Socio-economic impact study: National Park on Baffin Island. Final report, March 1, 1975, to Parks Canada, Quebec Region, Ste. Foy, Quebec, Contract 74-148. 214 pp. + maps.

Gives a description and an analysis of the population, and the social and economic conditions in Pangnirtung and Broughton Island. Includes information on population trends, income, employment, health, education and welfare. Presents a preliminary evaluation of the socio-economic impact of the park on the two communities and gives recommendations on the direction to follow in future research.

General, Auyuittuq

MCALLISTER, D.E. 1975. Ecology of the marine fishes of arctic Canada. In Proceedings of the circumpolar conference on northern ecology. National Research Council of Canada, Ottawa, Ontario. Section II. pp. 49-65.

Topics discussed include: attributes of and adaptations to the arctic environment; habitats and niches in Canada; sensitivity of the environment to influence by man; and gaps in our knowledge of arctic ecology.

Fauna, marine environment

MCCART, P.J., and J. DEN BESTE. 1979. Aquatic resources in the Northwest Territories. A report prepared for the Science Advisory Board of the Northwest Territories. Northwest Territories Department of Information, Yellowknife, Northwest Territories. 55 pp.

A compilation of the available information relevant to the understanding and management of the most significant northern fish species. Gaps in the data are highlighted and procedures recommended for filling in the gaps. Includes information on domestic, commercial and sport fisheries, and the distribution, life histories and utilization of major fish species.

Fauna, freshwater, marine environment

MCCARTNEY, A.P. 1980. The nature of Thule Eskimo whale use. Arctic, 33:517-541.

Direct, indirect, and circumstantial evidence is outlined in support of the archaeological view that bowheads were hunted and extensively used by the Thule Eskimos.

Human history, fauna, marine environment, resource harvest

MCISAAC, J.J. 1976. Proposal for development and management of a system of trails and shelters, Pangnirtung Pass from Overlord to Highway Glacier. Unpublished report, Parks Canada. 28 pp.

General, Auyuittuq

MCKAY, W.N. 1978. Davis Strait wave climate study using the 1970 through 1977 meterological and oceanographic centre synoptic significant wave charts. Site Number 1 - 63°N, 59°W, Site Number 2 - 60°N, 60°W. Unpublished report, Production Department, Imperial Oil Limited, Calgary, Alberta. Arctic Petroleum Operators' Association Project 138. IPRT-10ME-78. 260 pp.

An investigation of the wave climates of two sites in Davis Strait. Percent exceedance, durations, and return intervals of significant wave heights have been determined. This information is essential in order to properly plan and operate exploration and production systems.

Climatology, marine environment

MCKENNA-NEUMAN, C. 1985. Preliminary investigation of wind (aeolian) activity in south Pangnirtung Pass, Baffin Island, N.W.T. Report prepared for Parks Canada. Queen's University, Kingston, Ontario. 52 pp.

Describes erosional, abrasional, and depositional aeolian features in the Weasel River area of Auyuittuq National Park Reserve.

Climatology, geology, Auyuittuq

MCKENNA-NEUMAN, C. and R. GILBERT. 1985. Aeolian processes, controls and features in the eastern Canadian arctic. In 14th Arctic Workshop, Arctic Land-sea Interaction, 6-8 November 1985. Bedford Institute of Oceanography, Dartmouth, Nova Scotia. pp. 78-81.

A descriptive review of the major factors controlling aeolian activity in Pangnirtung Pass.

Geology, climatology, Auyuittuq

MCLAREN, I.A. 1958a. The biology of the ringed seal (Phoca hispida Schreber) in the eastern Canadian Arctic. Fisheries Research Board of Canada Bulletin 118. 97 pp.

Discusses the growth, reproduction, feeding habits, moult, local movements and distribution of the ringed seal. The report deals mainly with northern Foxe Basin and southwest coast of Baffin Island.

Fauna, marine environment

MCLAREN, I.A. 1958b. The economics of seals in the eastern Canadian Arctic. Fisheries Research Board Circular Number 1. 94 pp.

A preliminary enquiry into the economics of seal hunting in the eastern Canadian Arctic. Discusses feeding habits, growth, reproduction, distribution, abundance, and harvest of the economically important ringed and bearded seals.

Fauna, marine environment, resource harvest

MCLAREN, I.A. 1961. Methods of determining the numbers and availability of ringed seals in the eastern Canadian Arctic. Arctic, 14:162-175.

Describes field methods used in determining the number of seals in the eastern Arctic.

Fauna, marine environment

MCLAREN, I.A. 1962. Population dynamics and exploitation of seals in the eastern Canadian Arctic. In The exploitation of natural animal populations. Edited by E.D. LeCren and M.W. Holdgate. Blackwell Scientific Publications, Oxford, England. pp. 168-183.

Contains information on feeding habits, growth, reproduction, mortality, size and age structure of populations, sustainable yield, and availability of the common and economically important ringed and bearded seals.

Fauna, marine environment, resource harvest

MCLAREN, I.A. 1977. The status of seals in Canada. In Canada's threatened species and habitats. Edited by T. Mosquin and C. Suchal. Canadian Nature Federation, Ottawa, Ontario. pp. 71-78.

Discusses the status of the seven species of hair seals, a fur seal and two sea lions in Canadian waters. Most attention is paid to those that are perceived to be in any way threatened or endangered.

Fauna, marine environment, resource harvest

MCLEAN, B.D. 1984. Gyrfalcon nesting survey in southern Baffin Island, May-June 1984. Unpublished report prepared for the Baffin Regional Inuit Association and the Baffin Regional Council. Department of Renewable Resources, Government of the Northwest Territories, Yellowknife, Northwest Territories. 44 pp.

Presents the results of a survey of gyrfalcon nesting sites in southern Baffin Island. Discusses nest site characteristics, colour phase, behaviour, possible limiting factors to gyrfalcon numbers, the economic implications of a gyrfalcon harvest, and recommendations for continued study. Includes observations of nesting by the common raven, peregrine falcon, and rough-legged hawk.

Fauna

MCMILLAN, N.J. 1973. Surficial geology of Labrador and Baffin Island shelves. Earth Science Symposium on Offshore Eastern Canada. Geological Survey of Canada Paper 71-23. Ottawa, Ontario. pp. 451-469.

Describes the surficial geology of the Labrador and Baffin Island shelves. Presents a tentative conclusion for the origin of the sedimentary component of the shelves. [Andrews and Andrews 1980]

Geology, marine environment

MEARS, A.I. 1972. Glacial geology and crustal properties of the Nedlukseak Fiord region, east Baffin Island, Canada. M.Sc. thesis, University of Colorado, Boulder, Colorado. 60 pp.

Former glacier profiles are reconstructed for the area and a mid and late Wisconsin glacial history reconstructed. Sea level changes associated with the glacial history are discussed. [Andrews and Dyke 1974]

Geology, marine environment, Auyuittuq

MILLER, G.H. 1972. Quaternary history of northern Cumberland Peninsula, east Baffin Island, N.W.T., Canada, Part IX: Neoglacial chronology of the eastern margin of the Penny Ice Cap and nearby glaciers. Abstract in Rocky Mountain Section 25th annual meeting. Geological Society of America, Abstracts with Programs, 4:396.

Discusses the Neoglacial chronology of the eastern margin of the Penny Ice Cap based on lichenometry and some C^{14} dates. [Andrews and Andrews 1980]

Geology, climatology, Auyuittuq

MILLER, G.H. 1973a. Late-Quaternary glacial and climatic history of northern Cumberland Peninsula, Baffin Island, N.W.T., Canada. Quaternary Research, 3: 561-583.

A study of 46 glacial moraines of Neoglacial age in the northern part of the park. Lichenometry is used to date the moraines and C^{14} dates on buried soils and peats are used to reconstruct a summer paleotemperature curve from about 8000 BP to the present.

Geology, climatology, soils, Auyuittuq

MILLER, G.H. 1973b. Variations in lichen growth from direct measurements: preliminary curves for _Alectoria miniscula_ from eastern Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 5:333-339.

Direct measurement of thallus area of the subfruticose lichen _Alectoria miniscula_ from eastern Baffin Island allows construction of preliminary lichen growth curves for this area. Compares the tracing method of determining thallus diameters with the photogrammetric method. [Andrews and Andrews 1980]

Geology, flora, Auyuittuq

MILLER, G.H. 1975. Glacial and climatic history of northern Cumberland Peninsula, Baffin Island, Canada, during the last 10,000 years. Ph.D. thesis, University of Colorado, Boulder, Colorado. 253 pp.

Presents results of a study of glacial and glacio-marine deposits from the northern Cumberland Peninsula. Late Wisconsin moraines are identified on the basis of morphology, weathering, position and their association with marine deposits of known age. The regional Neoglacial chronology is delimited by detailed lichenometric studies. Climatic fluctuations are reconstructed for the last 20,000 years.

Geology, climatology, Auyuittuq

MILLER, G.H. 1976. Anomalous local glacier activity, Baffin Island, Canada: paleoclimatic implications. Geology, 4:502-504.

Describes a study of anomalous local glacier activity in eastern Baffin Island attributed to diminished precipitation during a glacial-interglacial cycle and discusses the climatic implications.

Climatology, geology

MILLER, G.H., and J.T. ANDREWS. 1972. Quaternary history of northern Cumberland Peninsula, east Baffin Island, N.W.T., Canada. Part VI: Preliminary lichen growth curve for Rhizocarpon geographicum. Geological Society of America Bulletin, 83:1133-1138.

Presents a tentative lichen growth curve derived from data collected during the field seasons of 1969, 1970, and in part, 1968.

Climatology, flora, geology, Auyuittuq

MILLER, G.H., J.T. ANDREWS, and S.K. SHORT. 1977. The last interglacial-glacial cycle, Clyde Foreland, Baffin Island, N.W.T.: stratigraphy, biostratigraphy, and chronology. Canadian Journal of Earth Sciences, 14:2824-2857.

Presents data on the glacial sequence and inferred paleoclimatology of the Clyde foreland since the last interglaciation, derived from the stratigraphy (C^{14} and amino acid age control), variations in marine microfossil faunas, and palynology of the organic horizons and soils collected from the Clyde cliffs.

Geology, climatology, soils

MILLER, G.H., and R.S. BRADLEY. 1977. The moulding of the land. North, 24(2):2-9.

Describes the geological and physical evolution of the Cumberland Peninsula. Part 3 of a 6-part series on Auyuittuq condensed from WILSON 1976.

Geology, Auyuittuq, popular

MILLER, G.H., and A.S. DYKE. 1973. Maximum extent of late-Wisconsin ice on eastern Baffin Island: a reappraisal. In Symposium on the Geology of the Canadian Arctic, May 23-26, 1973, University of Saskatchewan, Saskatoon, Canada, Program with Abstracts. pp. 22-23.

Geology, climatology

MILLER, G.H., and A.S. DYKE. 1974. Proposed extent of late Wisconsin Laurentide ice on eastern Baffin Island. Geology, 2:125-130.

Suggests that the northeastern margin of the Laurentide ice sheet had a distinctly different glacial history which may challenge the validity and usefulness of the current correlations of Wisconsin stratigraphic sections with the Laurentide record relying exclusively on midcontinent stratigraphy. Includes an interpretation of radiometric data, geomorphic evidence, alternative interpretations, and paleoclimatic inferences.

Geology, climatology

MILLER, G.H., W.W. LOCKE III, and G.W. LOCKE. 1980. Physical characteristics of the southeastern Baffin Island coastal zone. In The coastline of Canada. Edited by S.B. McCann. Geological Survey of Canada Paper 80-10. Ottawa, Ontario. pp. 251-265.

The morphology and sedimentological characteristics of the littoral and inshore marine environments of the coastal zone were mapped based on air photo interpretation supplemented by low-level aircraft observations and ground-truth data. Specific sediment and morphologic data were obtained from Frobisher Bay and Hall Peninsula.

Geology, climatology, sea ice

MILLER, G.H., and L.D. WILLIAMS. 1974. Late Wisconsin paleoclimate derived from a snow-melt program and variations in glacier response: eastern Baffin Island. Geological Society of America, Abstracts with Programs, 6:870.

Geology, climatology

MILLWARD, A.E. 1930. Southern Baffin Island: an account of exploration, investigation, and settlement during the past fifty years. Canadian Department of the Interior, Northwest Territories and Yukon Branch. King's Printer, Ottawa, Ontario. 130 pp.

Historical accounts of exploration and investigation of southern Baffin Island. Sources of information include the RCMP, and scientific and exploratory expeditions.

General, human history

MILNE, A.R. 1979. Arctic marine environmental studies. In Proceedings of the Eighth Arctic Environmental Workshop. Edited by S.J. Jones. Arctic Institute of North America, Calgary, Alberta. pp. 28-43.

Reviews three major study programs, Beaufort Sea, Baffin Bay region, offshore Labrador, and gives perceptions of the adequacy of their design. Describes how the studies have been or may be used, and how their results are used by decision-makers.

General, marine environment

MITCHELL, E.D. 1973. The status of the world's whales. Nature Canada, 2(4):9-25.

General information on whales including history, distribution, abundance, and the status of whales today. Identifies areas where more research is required.

Fauna, marine environment, resource harvest

MITCHELL, E.D., and R.R. REEVES. 1981. Catch history and cumulative catch estimates of initial population size of cetaceans in the eastern Canadian Arctic. Report of the International Whaling Commission, 31:645-682.

Reconstructs catch history, estimates initial population size, and assesses present population status for bowhead whales, narwhals, and the Cumberland Sound population of belugas.

Fauna, marine environment, resource harvest

MITCHELL, E.D., and R.R. REEVES. 1982. Factors affecting abundance of bowhead whales Balaena mysticetus in the eastern Arctic of North America, 1915-1980. Biological Conservation, 22:59-78.

Presents evidence that the protection of the bowhead whales in the eastern Arctic since 1915 has not been as complete as was assumed. Discusses aspects of bowhead mortality including hunting by native people, and ice-related and predator-related natural mortality. Presents recommendations by the authors for future management of this species.

Fauna, marine environment, resource harvest

MOORE, I.A., and J.W. MOORE. 1974. Food of shorthorn sculpin, Myoxocephalus scorpius, in the Cumberland Sound area of Baffin Island. Journal of the Fisheries Research Board of Canada, 31:355-359.

Stomach contents of 240 sculpins captured at monthly intervals from June to October, 1972 from Cumberland Sound and Pangnirtung Fiord were identified and counted. Simultaneous collections of zooplankton and benthos were made from the same locations for comparison.

Fauna, marine environment

MOORE, J.W. 1972. The arctic char, Salvelinus alpinus (L.), fisheries in Cumberland Sound, Baffin Island. Unpublished manuscript report, Department of Industry and Development, Government of the Northwest Territories, Yellowknife, Northwest Territories. 20 pp.

Discusses the commercial fishing of arctic char in Cumberland Sound. Includes information on growth, mortality, abundance, distribution, exploitation.

Fauna, marine environment, freshwater, resource harvest

MOORE, J.W. 1974a. The benthic algae of southern Baffin Island. I. Epipelic communities in rivers. Journal of Phycology, 10:50-57.

Describes the community composition of algae associated with sediments of several rivers of southern Baffin Island during the growing season of 1972.

Flora, freshwater

MOORE, J.W. 1974b. Benthic algae of southern Baffin Island. II. The epipelic communities in temporary ponds. Journal of Ecology, 62:809-819.

Reports standing crop values from epipelic algae in small ponds of southern Baffin Island. Describes community composition, patterns of species succession, and physical and chemical parameters influencing standing crop.

Flora, freshwater

MOORE, J.W. 1974c. Benthic algae of southern Baffin Island. III. Epilithic and epiphytic communities. Journal of Phycology, 10:456-462.

Describes the community composition of epilithic algae associated with rock and gravel substrates of fast-flowing rivers and lakes of southern Baffin Island, reports standing crop values and discusses species succession. Briefly describes epiphytic algal communities.

Flora, freshwater

MOORE, J.W. 1975a. Benthic algae of southern Baffin Island. IV. Annotated list of Bacillariophyta. Nova Hedwigia, 26:205-223.

Presents an annotated list of the epipelic, epilithic, and epiphytic Bacillariophyta collected during 1972 from Baffin Island.

Flora, freshwater

MOORE, J.W. 1975b. Distribution, movements, and mortality of anadromous arctic char, Salvelinus alpinus L., in the Cumberland Sound area of Baffin Island. Journal of Fish Biology, 7:339-348.

Discusses the distribution, movements, and mortality of anadromous arctic char in two rivers flowing into Cumberland Sound.

Fauna, freshwater, marine environment

MOORE, J.W. 1975c. Reproductive biology of anadromous arctic char, *Salvelinus alpinus* (L.), in the Cumberland Sound of Baffin Island. Journal of Fish Biology, 7:143-151.

Describes gonadal development, fecundity, and spawning in four char populations in unnamed tributaries flowing into Cumberland Sound.

Fauna, freshwater, marine environment

MOORE, J.W. 1981. Patterns of distribution of phytoplankton in northern Canada. Nova Hedwigia, 34:599-621.

Phytoplankton were collected from 1975 to 1979 in 99 permanent lakes and rivers in the arctic and subarctic regions of Canada. Species composition and densities of the communities were determined. Factors controlling the pattern of phytoplankton distribution are discussed.

Flora, freshwater

MOORE, J.W., and I.A. MOORE. 1974. Food and growth of arctic char, *Salvelinus alpinus* (L.), in the Cumberland Sound of Baffin Island. Journal of Fish Biology, 6:79-92.

Investigates some aspects of the availability and utilization of food and their effect on the growth rate of anadromous char in an arctic region.

Fauna, freshwater, marine environment

MOORE, T.R. 1978a. Soil development in arctic and subarctic areas of Quebec and Baffin Island. *In* Quaternary soils. *Edited by* W.C. Mahaney. Geo Abstracts, Norwich, England. pp. 379-411.

Soil development is examined at nine sites along a transect from the boreal forest to the subarctic and arctic zones, including sites at Frobisher Bay and Clyde River.

Soils, flora

MOORE, T.R. 1978b. Soil formation in northeastern Canada. Annals of the Association of American Geographers, 68:518-534.

Soils samples were taken from selected points along a transect from the boreal forest to the subarctic and arctic zones and examined for morphological properties and chemical components. Representative soil profiles were constructed for ten sites including Frobisher Bay and Clyde River on Baffin Island.

Soils

MORIN, H. 1977. A l'assaut des cimes de Baffin. North, 24(3):4-7.

Account of the Baffin 76 Expedition by a 9-member team from the Quebec Mountain Federation to a region in Auyuittuq along the Weasel River. Their main objective was to climb Mount Thor.

Popular, general, Auyuittuq

MURPHY, D. 1973a. Fauna survey, Baffin Island, N.W.T. Report to the Northwest Territories Game Management Branch. 7 pp. + 5 maps.

Records observations of wildlife in the area of Cumberland Sound and the southern part of the park. Information is illustrated on five maps for the distribution of animals in recent years.

Fauna

MURPHY, D. 1973b. Report of polar bear denning survey: Hoare Bay, Baffin Island. Game Management Division, Department of Industry and Development, Government of the Northwest Territories, Yellowknife, Northwest Territories. Mimeographed. 14 pp. + 1 map.

Fauna, marine environment

MURRAY, J.W., W.G. LIBBEY, and R.L. CHASE. 1970. Baffin continental shelf, potential oil and gas source. Oilweek, 21:50-54.

Marine environment, environmental impact

NELSON, A.R. 1977. Stratigraphy of the Qivitu Peninsula, North Cumberland Peninsula, Baffin Island. Unpublished report, Institute of Arctic and Alpine Research, University of Colorado, Boulder, Colorado. 26 pp.

Geology, Auyuittuq

NELSON, A.R. 1978a. Quaternary glacial and marine stratigraphy of the Qivitu Peninsula, northern Cumberland Peninsula, Baffin Island, Canada. Ph.D. thesis, University of Colorado, Boulder, Colorado. 297 pp.

Reports on a study of the morpho-, litho-, and chronostratigraphic record carried out in order to develop an integrated Quaternary history of the Qivitu Peninsula.

Geology, Auyuittuq

NELSON, A.R. 1978b. Stratigraphic evidence of ice extent during the last glaciation on Qivitu Peninsula, eastern Baffin Island. Geological Society of America, Abstracts with Programs, 10:462.

Geology, Auyuittuq

NELSON, A.R. 1980. Chronology of Quaternary landforms, Qivitu Peninsula, northern Cumberland Peninsula, Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 12:265-286.

Discusses the glacial chronology of the Qivitu Peninsula which was developed through a study of the surficial deposits. It was suggested that the chronology developed in this region be used as a model of ice extent, timing and changes of relative sea level during the Foxe Glaciation on eastern Baffin Island. This model chronology is confirmed in detail.

Geology, Auyuittuq

NELSON, A.R. 1981. Quaternary glacial and marine stratigraphy of the Qivitu Peninsula, northern Cumberland Peninsula, Baffin Island, Canada: summary. Geological Society of America Bulletin, Part I, 92:512-518.

Presents an interpretation of the Quaternary history of the Qivitu Peninsula as recorded by the complex glaciomarine and marine lithofacies exposed along its outer coast.

Geology, Auyuittuq

NELSON, A.R. 1982. Aminostratigraphy of Quaternary marine and glaciomarine sediments, Qivitu Peninsula, Baffin Island. Canadian Journal of Earth Sciences, 19:945-961.

Presents the analysis of a large number of shell fragments from as many stratigraphic units and locations as possible. Multivariate analysis of enantiomeric and other amino acid ratios in both total and free amino acid fractions from these fragments provide a basis for correlation of the lithostratigraphic units of the Qivitu Peninsula through the use of informal aminostratigraphic units.

Geology, marine environment, Auyuittuq

NELSON, J.G. 1975. Arctic renewable resources: summary and recommendations, Volume II. Unpublished report, Renewable Resources Project of Inuit Tapirisat of Canada, University of Western Ontario and University of Waterloo. 91 pp.

Presents a summary of the previous ten volumes which were intended to provide information on Arctic renewable resources as a basis for a land claims settlement and to estimate the economic returns obtainable by the Inuit from renewable resources. Describes 26 areas in the arctic islands which are of critical importance to Inuit culture and land use. The wildlife and other renewable resources in each area are identified. Areas on Baffin Island include: Northwest Baffin Island, Koukdjuak Plain, Nettilling and Amadjuak Lakes, and South Foxe Peninsula.

General, fauna, resource harvest

NELSON, J.G. 1976. The future role of conservation reserves in the Arctic. Contact, Journal of Urban and Environmental Affairs, 8:76-116.

Discusses the effectiveness of the different forms of conservation reserves in the north (national parks, bird sanctuaries, game reserves), discusses the development of a territorial parks system, and describes the critical wildlife areas on the arctic islands.

General, fauna

NETTLESHIP, D.M. 1977. Seabird resources of eastern Canada: status, problems and prospects. In Canada's threatened species and habitats. Edited by T. Mosquin and C. Suchal. Canadian Nature Federation, Ottawa, Ontario. pp. 96-108.

Provides a review of the distribution, status and prospects of major seabird species breeding in eastern Canada and the eastern Canadian Arctic. The nature and sources of threat to these species and the minimum requirements for management are discussed.

Fauna, marine environment

NETTLESHIP, D.N., and T.R. BIRKHEAD (Editors). 1985. The Atlantic Alcidae: the evolution, distribution and biology of the auks inhabiting the Atlantic Ocean and adjacent water areas. Academic Press Incorporated, London, England. 574 pp.

Includes important information on the distribution and size of seabird colonies in the Canadian eastern Arctic.

Fauna, marine environment

NEWBERRY, N. 1982. Auyuittuq: another time and place. North, 28(4):32-37.

Account of an expedition from Broughton to Pangnirtung by snowmobile on the Easter weekend in 1981 and a description of the park.

Popular, general, Auyuittuq

NEWMAN, M.A. 1971. Narwhals, sea going unicorns of the north. In Toothed whales in eastern north Pacific and arctic waters. Compiled by A. Seed. Pacific search, Seattle, Washington. pp. 34-39.

Describes the narwhal and its tusk, and discusses distribution, abundance, reproduction, feeding habits, predation, and resource use.

Fauna, marine environment, resource harvest

NICHOLS, H. 1977. Tree pollen in tundra sediments from Baffin Island: Holocene paleoclimatic indicators? In 10th International Association on Quaternary Research Congress Abstracts. p. 323.

Discusses the study of exotic pollen in late Holocene sediments of eastern Baffin Island as an indicator of paleo-environment.

Climatology, geology

NICHOLS, H., and P.M. KELLY. 1978. Holocene palaeo-wind evidence from palynology in Baffin Island. Nature, 273:140-141.

Presents results from a study of wind-blown tree pollen found in late-Holocene sediments on Cumberland Peninsula. The results are used to indicate palaeo-wind conditions. Pollen profiles were developed for sites at Windy Lake and Maktak Fiord.

Climatology, geology, Auyuittuq

NORTHWEST TERRITORIES WILDLIFE SERVICE. 1981. Polar bear tagging - Baffin Island. NWT Wildlife Notes Number 3. 4 pp.

A popular description of polar bear tagging on Baffin Island, including the area near Broughton Island.

Fauna, marine environment, popular

ORVIG, S. 1954a. Glacial-meteorological observations on ice caps in Baffin Island. Geografiska Annaler, 36:193-318.

Observations were made by the author on Penny Ice Cap, Cumberland Peninsula, May-September 1953. Weather conditions on Cumberland Peninsula are described, and meteorological,

radiation, and ablation data collected in summer 1953 are discussed, tabulated, and graphed. These observations and data are compared with those collected from the Barnes Ice Cap in 1950.

Climatology, geology, Auyuittuq

ORVIG, S. 1954b. Glacial-meteorological observations on ice caps in Baffin Island. Ph.D. thesis, McGill University, Montreal, Quebec.

Climatology, geology, Auyuittuq

ORVIG, S. 1955. Meteorological work in Baffin Island. Weather, 10:72-77.

Presents a broad survey of climatic conditions on Baffin Island as observed to date by members of the Arctic Institute of North America. Meteorological observations were made on the Barnes and Penny ice caps in 1953.

Climatology, Auyuittuq

OSBURN, T.R., P.H. LEBLOND, and D.O. HODGINS. 1978. Analysis of ocean currents, Davis Strait, 1977. Unpublished report by Seaconsult Marine Research Limited, Calgary, Alberta for Imperial Oil Limited, Production Research Division, Calgary, Alberta. Arctic Petroleum Operator's Association Report 138-11. Volumes I + II.

Volume II is a catalogue of the current meter and conductivity/temperature/depth data used in the analysis described in Volume I.

Marine environment

PARADIS, S., N.R. MORRISON, and V.N. RAMPTON. 1986. Ecosections of Auyuittuq National Park Reserve. Unpublished report prepared for the Department of Renewable Resources, Government of the Northwest Territories, Yellowknife, Northwest Territories by Terrain Analysis Mapping Services, Carp, Ontario. 63 pp.

Ecosection classification and description for Auyuittuq consisting of a report plus a detailed biophysical map.

Geology, flora, fauna, Auyuittuq

PARCS CANADA. 1973 ca. Liste des etudes et inventaires bio-physiques et culturelles des parcs de Forillon, La Mauricie et Auyuittuq. Services de la conservation des ressources naturelles, Parcs Canada, Region du Quebec.

General, Auyuittuq

PARKS CANADA. no date. Baffin Island National Park - information. Parks Administration Office, Parks Canada. 10 pp.

General information on the park including: location and transportation, accommodation, recreational facilities, tourist services, interpretive program, history of exploration, natural history, place names, historic sites, and park anomalies.

Popular, general, Auyuittuq

PARKS CANADA. 1973a. Management concept - Baffin. / Concept d'amenagement Baffin. Planning Division, Parks Canada, Department of Indian and Northern Affairs, Quebec Region.

General, Auyuittuq

PARKS CANADA. 1973b. The National Park on Baffin Island. A preliminary management statement. National Parks Branch, Parks Canada, Ottawa, Ontario.

General, Auyuittuq

PARKS CANADA. 1975a. Auyuittuq National Park - Baffin Island/Parc National Auyuittuq - Ile Baffin. Parks Canada, Department of Indian and Northern Affairs, Ottawa, Ontario. 7 pp.

A general description of the park, its environment, and facilities. Aimed at potential visitors.

General, popular, Auyuittuq

PARKS CANADA. 1975b. Auyuittuq National Park Information, Auyuittuq National Park Reserve, Pangnirtung, Northwest Territories. Parks Canada, Department of Indian and Northern Affairs, Quebec Region.

Popular, general, Auyuittuq

PARKS CANADA. 1975c. Auyuittuq National Park Reserve: interim management guidelines. Planning Division, Parks Canada, Department of Indian and Northern Affairs, Quebec Region.

General, Auyuittuq

PARKS CANADA. 1977. Natural areas of Canadian significance: a preliminary study. Parks System Planning Division, Parks Canada, Department of Indian and Northern Affairs, Ottawa, Ontario. 123 pp.

Discusses all known natural areas, excluding existing national parks, in terms of representativeness, uniqueness, size and naturalness.

General, fauna, flora, geology

PARKS CANADA. 1981. Backpacking in Pangnirtung Pass. 2 pp.

Very general information pamphlet directed towards the hiker. Introduces some physical characteristics, flora, fauna, and climate in the park. Included are short sections on personal safety and equipment, and a map of the park. In French and English.

Popular, general, Auyuittuq

PARKS CANADA. 1982. Auyuittuq National Park Reserve interim management guidelines. Parks Canada, Prairie Region, Winnipeg, Manitoba. 10 pp. (English), 10 pp. (French), 11 pp. (Inuktitut).

Guidelines were prepared to provide direction for operation and management of Auyuittuq National Park Reserve until the management plan was completed and approved. Areas covered include: natural resource conservation and management; historical, cultural and archaeological resource conservation; interpretation; visitor services; regional integration and cooperative activities; park administration; and park management planning.

General, Auyuittuq

PARKS CANADA. 1983a. Auyuittuq National Park Reserve, Northwest Territories - ski touring. 2 pp.

A brochure containing general information on climate, access, safety, hazards, equipment required, and routes for skiing. Includes a map of the area.

Popular, general, Auyuittuq

PARKS CANADA. 1983b. Auyuittuq National Park Reserve, Northwest Territories. 2 pp.

A brochure (folded) providing a general description of the park along with suggested activities for visitors. Includes a map of the area.

Popular, general, Auyuittuq

PARKS CANADA. 1983c. Auyuittuq National Park Reserve visitor 1982 survey report. Socio-economic Division, Parks Canada, Ottawa, Ontario.

General, Auyuittuq

PARKS CANADA. 1983d. Northwest Territories, Auyuittuq National Park Reserve. / Territoires du Nord-Ouest, Reserve du Parc National Auyuittuq. 2 pp.

A brochure (8 1/2" x 11") providing a general description of the park.

Popular, general, Auyuittuq

PARKS CANADA. 1985. Economic performance of four northern national parks/reserves. Socio-economic Branch, Evaluation and Analysis Division, Parks Canada

General, Auyuittuq

PAVSHTIKS, E.A. 1968. The influence of currents upon seasonal fluctuations in the plankton of the Davis Strait. Sarsia, 34:383-392.

Presents data obtained from samples of plankton collected in Davis Strait from 1962 to 1964. Discusses the effect of currents on the composition of the zooplankton and the timing of development of zooplankton during different seasons.

Fauna, flora, marine environment

PAVSHTIKS, E.A. 1972. Biological seasons in the zooplankton of Davis Strait. In Geographical and seasonal variability of marine plankton. Edited by Z.A. Zvereva. Published in 1975 by IPST. Jerusalem, Israel. 303 pp. (translated)

Presents an analysis of zooplankton samples collected from the upper water layer in Davis Strait in different seasons of the year. Discusses seasonal variations in abundance and biomass of plankton, age composition of plankton populations, and species composition in plankton associations.

Fauna, marine environment

PAVSHTIKS, E.A. 1973. Biological seasons in zooplankton of the Davis Strait. In Exploration of the fauna of the seas. Fisheries Research Board of Canada, Translation series Number 2607. Academy of Sciences of the U.S.S.R., 12:172-214. (translated)

Presents an analysis of zooplankton samples collected from the upper water layer in Davis Strait in different seasons of the year. Discusses seasonal variations in abundance and biomass of plankton, age composition of plankton populations, and species composition in plankton associations.

Fauna, marine environment

PEARSON, N. 1971. New national parks for Canada. Centre for Resources Development Publication 52. University of Guelph, Guelph, Ontario. 16 pp.

Discusses the natural regions and sub-regions of Canada that are not represented by the national parks system to indicate possible areas for future parks that would make the system more complete.

General, Auyuittuq

PETERSON, N.M. (Compiler). 1974-1983. Ecology of the Canadian Arctic Archipelago: selected references. Volumes 1-11. Department of Indian Affairs and Northern Development, Ottawa, Ontario.

An extensive number of ecological publications concerning the Canadian Arctic Archipelago are compiled and annotated. An index, compiled by G.B. Mersky, M.A. Peterson, and N.M. Peterson in 1983, is also available. It contains author, subject, and geographic (land and marine) indices for all annotations in Volumes 1 through 11.

General, fauna, flora, freshwater, marine environment

PHEASANT, D.R. 1971. The glacial chronology and glacio-isostacy of the Narpaing/Quajon Fiord area, Cumberland Peninsula, Baffin Island. Ph.D. thesis, University of Colorado, Boulder, Colorado. 232 pp.

A discussion of the glacial geology and raised marine features of Narpaing and Quajon Fiord areas. The study is a primary reference source of field data and includes several C^{14} dates. [A.D. Revill Associates 1975]

Geology, Auyuittuq

PHEASANT, D.R., and J.T. ANDREWS. 1972a. The Quaternary chronology of Narpaing and Quajon fiords, east Baffin Island, during the last 100,000 years BP. International Geological Congress Abstracts, 24:375-376.

Geology, Auyuittuq

PHEASANT, D.R., and J.T. ANDREWS. 1972b. The Quaternary history of the northern Cumberland Peninsula, Baffin Island, N.W.T., Part VIII: Chronology of Narpaing and Quajon Fiords, during the past 120,000 years. In Proceedings of 24th International Geological Congress, Montreal, Quebec. Section 12. pp. 81-88.

Presents the Quaternary chronology of the Narpaing and Quajon fiords based on the delimitation of 3 weathering zones in the coastal highlands, the regional patterns of moraines and raised marine features, and C^{14}, uranium series and amino-acid dates. Outlines the evidence for the 3 weathering zones and equates the youngest zone to the Wisconsin Glaciation.

Geology, Auyuittuq

PHEASANT, D.R., and J.T. ANDREWS. 1973. Wisconsin glacial chronology and relative sea-level movements, Narpaing Fiord, Broughton Island area, eastern Baffin Island, N.W.T. Canadian Journal of Earth Sciences, 10:1621-1641.

Outlines in detail the changes in relative sea level, crustal deformation and postglacial uplift for a section of the northern part of the park. Maps show ice extent at various times and their associated marine deposits. Gives table of C^{14} dates used in the study. [Andrews and Dyke 1974]

Geology, marine environment, Auyuittuq

PHILLIPS, C. 1980. Historical archaeological survey, Auyuittuq National Park and vicinity. Unpublished report, Parks Canada.

Geology, human history, Auyuittuq

PIPER, D.J.W., and R.M. SLATT. 1977. Late Quaternary clay-mineral distribution on the eastern continental margin of Canada. Geological Society of America Bulletin, 88:267-272.

Evaluates the major Holocene and Wisconsin sources of clays to the offshore regions. Determines the relative importance of in situ reworking of existing sediment transport, by processes normal to the coastline and by currents parallel to the coastline, in distributing these clay minerals.

Geology, marine environment

POIREL, J. 1976. Le camping au parc national Auyuittuq. North, 23(3):6-15.

The author discusses his first experience with the route across Pangnirtung Pass - the most likely route for people interested in camping in the park above the arctic circle. Describes the landscape and climate.

Popular, general, Auyuittuq

POLUNIN, N.V. 1940. Botany of the Canadian eastern Arctic, Part I. Pteridophyta and Spermatophyta. National Museum of Canada Bulletin 92, Biological Series Number 24. Ottawa, Ontario. 408 pp.

Each species is described in terms of its synonymy and systematic position, morphology, flowering and fruiting characteristics, general distribution, eastern Arctic distribution, and occurrence in terms of habitat and ecology.

Flora

POLUNIN, N.V. 1947. Botany of the Canadian eastern Arctic, Part II. Thallophyta and Bryophyta. National Museum of Canada Bulletin 97, Biological Series Number 26. Ottawa, Ontario. 573 pp.

Contains sections on algae, marine phytoplankton, freshwater Diatomeae, fungi, Lichenes, Musci, and Hepaticae composed mainly of annotated lists of species. Presents general distributions, and occurrence in the eastern Arctic.

Flora, marine environment, freshwater

POLUNIN, N.V. 1948. Botany of the Canadian eastern Arctic, Part III. Vegetation and ecology. National Museum of Canada Bulletin 104, Biological Series Number 32. Ottawa, Ontario. 304 pp.

Contains general descriptions of the geology, climate and vegetation of several Baffin locations including Pangnirtung. Ecological topics discussed include pollination, grazing pressures and bird stones. Factors influencing the distribution of different types of plant communities are emphasized.

Flora, geology, climatology

POLUNIN, N.V. (Editor). 1954. The cryptogamic flora of the Arctic. Botanical review, 20:361-476.

Contains six papers covering the non-vascular cryptogams: non-planktonic algae, planktonic algae, bacteria, bryophytes, fungi, and lichens.

Flora

PORSILD, A.E. 1957. Illustrated flora of the Canadian Arctic Archipelago. Department of Northern Affairs and Natural Resources Bulletin Number 146, Biological Series Number 50. Ottawa, Ontario. 216 pp.

The standard key for the vascular flora of the Canadian Arctic Archipelago.

Flora

PULLAN, S.E., J.A. HUNTER, and R. GILBERT. 1983. A shallow seismic survey on the intertidal flats at Pangnirtung, Baffin Island, Northwest Territories. In Current Research, Part B. Geological Survey of Canada Paper 83-1B. Ottawa, Ontario. pp. 273-277.

The origin and development of intertidal flats in Pangnirtung Fiord are considered.

Geology, marine environment

RAND CORPORATION. 1963. A report on the physical environment of southern Baffin Island, N.W.T., Canada. The RAND Corporation, Santa Monica, California, Memoir RM-2362-1-PR. 375 pp.

Has a very good section on the regional climate of southern Baffin Island and discusses the physiographic regions. A useful bibliography is included. [Andrews and Dyke 1974]

Climatology, geology

REDHEAD, R. 1976? A summary of the caribou studies done on southern Baffin Island in the spring and summer of 1976 by the Fish and Wildlife Service. Unpublished manuscript for the Hunters and Trappers Association of Southern Baffin Island. 7 pp.

Reports on progress in a 1 1/2 year study of the caribou of southern Baffin Island.

Fauna

REDHEAD, R. 1976a. 1976 Hoare Bay polar bear (*Ursus maritimus* Phipps) survey report. Unpublished report, Northwest Territories Wildlife Service, Yellowknife, Northwest Territories. 14 pp.

Fauna, marine environment

REDHEAD, R. 1976b. Fauna of Auyuittuq National Park and proximity. Unpublished report to Parks Canada, Quebec Region, St-Foy, Quebec. 15 pp.

Brief descriptions of terrestrial and marine mammals, birds, and fish that may be seen in or near Auyuittuq.

Fauna, Auyuittuq

REEVES, R.R. 1976. Narwhals: another endangered species. Canadian Geographic Journal, 92:12-19.

General information on past research, resource harvest, and abundance of narwhal in the Arctic. Research was carried out near Arctic Bay and Pond Inlet on Baffin Island.

Fauna, marine environment, resource harvest

REEVES, R.R. 1977. The walrus - not exactly thriving. North, 24(4):2-5.

General information on the distribution, abundance, and resource harvest of the walrus all across the northern hemisphere.

Fauna, marine environment, resource harvest

REEVES, R.R. 1978. Atlantic walrus (*Odobenus rosmarus rosmarus*): a literature survey and status report. Fish and Wildlife Service Wildlife Research Report 10. United States Department of the Interior, Washington, DC. 41 pp.

Discusses species range, abundance, exploitation, conservation, and research needs with a brief summary on walrus taxonomy, biology, and ecology.

Fauna, marine environment, resource harvest

RESOURCE MANAGEMENT CONSULTANTS (N.W.T.) LIMITED. 1981. Overview of economic impacts generated by Auyuittuq and Nahanni National Parks. Presented to the Department of Economic Development and Tourism, Government of the Northwest Territories, Yellowknife, Northwest Territories.

General, Auyuittuq

RICHARD, P.R., and J.R. ORR. 1986. A review of the status and harvest of white whales (*Delphinapterus leucas*) in the Cumberland Sound area, Baffin Island. Department of Fisheries and Oceans, Western Region, Winnipeg, Manitoba. Canadian Technical Report of Fisheries and Aquatic Sciences Number 1447. 25 pp.

Surveys and observations in Cumberland Sound 1979-1984. Includes discussions on seasonal distribution and harvests.

Fauna, marine environment, resource harvest

RILEY, G.C. 1957. The geology of the Cumberland Sound region, Baffin Island. Ph.D. thesis, McGill University, Montreal, Quebec. 172 pp.

A thorough study of certain coastal localities of southern Cumberland Peninsula with emphasis on petrology but also information on structure and raised marine deposits.

Geology

RILEY, G.C. 1960. Petrology of the gneisses of Cumberland Sound, Baffin Island, Northwest Territories. Geological Society of Canada Bulletin 61. 82 pp.

Discusses petrology and petrography of the complex of Precambrian metamorphic and igneous rocks of Cumberland Sound. Most of the more than 400 samples analyzed are from the Hall Peninsula to the southwest of the Sound, but the littoral zone north of Kingnait Fiord on Cumberland Peninsula is included, and classed within the granulites, and pyroxene-amphibole-bearing groups. [A.D. Revill Associates 1975]

Geology

RIPPIN, B. 1972. Baffin Island caribou. Report on aerial survey, May 1972 and a summary of known facts of caribou on Baffin Island. Unpublished report, Game Management Division, Government of the Northwest Territories, Yellowknife, Northwest Territories. 25 pp.

Presents observations from an aerial survey flown over Baffin Island in May 1972. Includes a summary of information from former surveys, hunters' interviews and data from the present survey.

Fauna

ROBITAILLE, B. 1978. Hydrology of Auyuittuq National Park (southeast portion), Baffin Island, N.W.T.; hydrogeomorphology report.

Freshwater, geology, Auyuittuq

ROBITAILLE, B., and P. BLACKBURN. 1977. Hydrogeomorphology report and maps of southeast Auyuittuq. National Parks Branch Documentation Center, Parks Canada, Ottawa, Ontario.

Freshwater, geology, Auyuittuq

ROSEN, M. 1983. Hiking through Auyuittuq National Park. Canadian Geographic, 102(6):64-71.

Brief account of a 30-day trek up the South Pangnirtung Fiord through the Pangnirtung Pass to the North Pangnirtung Fiord. Includes a general description of the park, and notes on climate and terrain.

Popular, general, Auyuittuq

ROTHLISBERGER, H. 1955. Studies in glacier physics on the Penny Ice Cap, Baffin Island, 1953, part III. Seismic sounding. Journal of Glaciology, 2:539-552.

Firn and ice thickness measurements were carried out by seismic refraction and reflection methods on a flat col of the highland snowfields of the Penny Ice Cap and on a medium-sized valley glacier (Highway Glacier). [Andrews and Andrews 1980]

Geology, Auyuittuq

RUFFMAN, A. 1974. Unproofed final draft bibliography of the marine aspect of Baffin Island National Park. Contract report prepared by Geomarine Associates, Halifax, Nova Scotia. 28 pp.

Contains annotated references concerned with the marine aspect of Auyuittuq National Park. Subject headings include geography, archaeology, bathymetry, geology, geophysics, oceanography, meteorology, ecology, flora, fauna.

General, marine environment, Auyuittuq

RUSKIN, O. 1972a. Pangnirtung adventures: excerpts from the memoirs of the late Leo Fielder. Part I. North, 19(5):29-33.

Describes Fielder's stay in Pangnirtung where he spent 2 years working as an RCMP constable. Contains a description of the way of life of the Inuit people. Includes very brief notes on wildlife in the area.

General, human history

RUSKIN, O. 1972b. Pangnirtung adventures: excerpts from the memoirs of the late Leo Fielder. Part II. North, 19(6):32-35.

A continuation of the previous article.

General, human history

RYDER, J.N. 1966. Field report - alluvial fans in eastern Baffin Island. In Field report, north-central Baffin Island, 1966. Edited by O.H. Loken. Geographical Branch, Department of Energy, Mines, and Resources, Ottawa, Ontario. pp. 64-71.

Reports on a study of actively aggrading alluvial fans at the heads of the Inugsuin, McBeth, Itirbilung, Tingin and Ekalugad fiords.

Geology

SCHLEDERMANN, P. 1971a. 1971 site survey in Cumberland Sound, Baffin Island: preliminary report. Canadian Archaeological Association Bulletin, 3:56-99.

Describes fieldwork undertaken during July and August, 1971, around innermost fjords of Cumberland Sound. Of 23 sites located, 18 are late Thule Eskimo with 178 house ruins; the remaining 5 sites are Dorset.

Human history

SCHLEDERMANN, P. 1971b. Archaeological survey of Cumberland Sound: preliminary report on the 1971 site survey. National and Historic Parks Branch Manuscript. 37 pp.

Describes fieldwork undertaken during July and August, 1971, around innermost fjords of Cumberland Sound. Of 23 sites located, 18 are late Thule Eskimo with 178 house ruins; the remaining 5 sites are Dorset. Report consists of individual site descriptions with accompanying maps. [A.D. Revill Associates 1975]

Human history

SCHLEDERMANN, P. 1972. Fieldwork report: Baffin Island National Park archaeological survey. Unpublished report, National and Historic Parks Branch, Parks Canada. 29 pp.

Initial report on the site survey carried out along the northern coastal regions of Baffin Island National Park in the fall of 1972. [A.D. Revill Associates 1975]

Human history, Auyuittuq

SCHLEDERMANN, P. 1973a. An archaeological site inventory of Baffin Island National Park, Baffin Island, N.W.T., 1972. Manuscript report series number 101. Parks Canada, Ottawa, Ontario.

Describes the results of an archaeological site survey carried out along the northern coastal regions of Baffin Island National Park.

Human history, Auyuittuq

SCHLEDERMANN, P. 1973b. Salvage and excavations in Cumberland Sound, Baffin Island, N.W.T., 1972. Archaeological Survey of Canada, Ottawa, Ontario.

Human history, Auyuittuq

SCHLEDERMANN, P. 1974. Salvage archaeology and site survey in Cumberland Sound and Merchants Bay area, Baffin Island, 1973. Archaeological Survey of Canada, Ottawa, Ontario.

Human history, Auyuittuq

SCHLEDERMANN, P. 1975a. Thule Eskimo prehistory of Cumberland Sound, Baffin Island, Canada. Ph.D. thesis, University of Calgary, Calgary, Alberta. 289 pp.

Explores the development of the Thule Eskimo culture in Cumberland Sound. Analyses were made of archaeological data obtained from a number of Thule Eskimo winter settlements. Includes a discussion of the possible causal relationships between cultural and climatological events and describes the available game resources of the Cumberland Sound region.

Human history, general, climatology, fauna

SCHLEDERMANN, P. 1975b. Thule Eskimo prehistory of Cumberland Sound, Baffin Island, Canada. National Museum of Man Mercury Series, Archaeological Survey of Canada Paper Number 38. 297 pp.

Discusses the transitional development of the Thule culture and its relationship to the present-day inhabitants of the region. Investigates the possible relationship between changing environments and the prehistoric cultural development of the Thule Eskimos. Includes chapters on physiology, oceanography, biological resources, and climate of Cumberland Sound and a section on the analysis of faunal remains found during the 1972 excavation.

Human history, general, fauna, marine environment, climatology

SCHLEDERMANN, P. 1977. People of the park. North, 24(1):20-27.

Describes the human history of the Cumberland Sound area of the park. Part 2 of a 6-part series on Auyuittuq condensed from WILSON 1976.

Human history, Auyuittuq, popular

SCHWARZENBACH, F. no date. Botanical observations on the Penny Highlands of Baffin Island. (Translated by D. Love from original German manuscript in 1975.) Institute of Arctic and Alpine Research, University of Colorado, Boulder, Colorado. 164 pp.

A detailed account of the flora and plant communities of the Penny Highlands. Plant succession and elevation influences on plant distribution are among the many topics.

Flora, geology, climatology, Auyuittuq

SCHWARZENBACH, F. 1954. A botanist in arctic mountains. Mountain World, 1953/54:163-168.

Flora, Auyuittuq

SCHWARZENBACH, F. 1961. Spring in the arctic mountains. Mountain World, 1960/61:244-251.

Describes botanical observations on Cumberland Peninsula. First blooms are noted and methods of seed dispersal are described. [A.D. Revill Associates 1975]

Flora, Auyuittuq

SEIDEL, K.H. 1987. The climate of Auyuittuq National Park Reserve: a review. Manuscript report prepared by the Northwest Territories Department of Renewable Resources for Environment Canada - Parks, Prairie and Northern Region, Winnipeg, Manitoba. 36 pp.

Meteorological data from five weather stations near Auyuittuq are summarized and the effects of regional and local climate controls are described.

Climatology, Auyuittuq

SEMPLES, J.-M. 1982. Geological environments of the Eastern Arctic. Environmental Studies Number 28. Northern Affairs Program, Department of Indian and Northern Affairs, Ottawa, Ontario.

Describes the geomorphology, surficial deposits, coastlines, vegetation, offshore physiography, and geology (including glacial) of areas in the eastern arctic. Includes areas in and around the park: Penny Highlands, Hantzsch Plateaus and Central Hills, Home Bay Upland and Cumberland Fiords, Nettilling Upland.

Geology, marine environment, flora

SERGEANT, D.E. 1962. The biology and hunting of beluga or white whales in the Canadian arctic. Fisheries Research Board of Canada, Arctic Unit Circular Number 8. 13 pp.

Presents details of distribution and feeding habits. Recounts the history of the beluga fishery, and outlines the present status and future development of the fishery.

Fauna, marine environment, resource harvest

SERGEANT, D.E. 1963. Harp seals and the sealing industry. Canadian Audubon, 25:29-35.

Fauna, marine environment, resource harvest

SERGEANT, D.E. 1965. Migrations of harp seals _Pagophilus groenlandicus_ Erxleben, in the northwest Atlantic. Journal of the Fisheries Research Board of Canada, 22:433-464.

Discusses migrations of harp seals in the northwest Atlantic based on recaptures over a 5-year period of 1300 pups tagged off eastern Canada.

Fauna, marine environment

SERGEANT, D.E. 1966. Populations of large whale species in the western North Atlantic with special reference to the fin whale. Fisheries Research Board of Canada, Atlantic Biological Station Circular Number 9. Ste. Anne de Bellevue, Quebec. 13 pp.

Fauna, marine environment

SERGEANT, D.E. 1972. Marine mammals within the boundaries of the Baffin Island Park. Memo on file in the library of the National and Historic Parks Branch, Department of Indian Affairs and Northern Development, Ottawa, Ontario.

Fauna, marine environment, Auyuittuq

SERGEANT, D.E. 1973. Feeding, growth, and productivity of northwest Atlantic harp seals (Pagophilus groenlandicus). Journal of the Fisheries Research Board of Canada, 30:17-29.

Discusses migration, feeding habits, and growth of the harp seal in the northwest Atlantic.

Fauna, marine environment

SERGEANT, D.E. 1974. A rediscovered whelping population of hooded seals Cystophora cristata Erxleben and its possible relationship to other populations. Polarforschung, 44:1-7.

Describes a rediscovered whelping population of hooded seals identified in March 1974 from aerial surveys. Discusses the interchange of this seal population with other populations east of Newfoundland and the related management implications.

Fauna, marine environment

SERGEANT, D.E., and F.A.J. ARMSTRONG. 1973. Mercury in seals from eastern Canada. Journal of the Fisheries Research Board of Canada, 30:843-846.

Discusses mercury concentrations in the tissues of four species of seals in eastern Canada.

Fauna, marine environment

SERGEANT, D.E., and P.F. BRODIE. 1969. Body size in white whales, Delphinapterus leucas. Journal of the Fisheries Research Board of Canada, 26:2561-2580.

Presents results of a study, between 1955 and 1968, of body size in white whales from several locations in Canada. A comparison is made with data from Russian studies.

Fauna, marine environment

SERGEANT, D.E., and P.F. BRODIE. 1975. Identity, abundance, and present status of populations of white whales, Delphinapterus leucas, in North America. Journal of the Fisheries Research Board of Canada, 32:1047-1054.

Includes a discussion of the status of the Cumberland Sound population of belugas.

Fauna, marine environment

SHORT, S.K. and J.T. ANDREWS. 1980. Palynology of six Middle and Late Holocene peat sections, Baffin Island. Geographie Physique et Quaternaire XXXIV:61-75.

Palynological investigations were carried out at six sites on the north coast of Cumberland Peninsula: Padloping Fiord, Quajon Fiord, Idjuniving Island, Broughton Island, Owl River and Pass Head. An analysis of twelve pollen diagrams from the six sites is presented.

Climatology, flora, Auyuittuq

SHORTT, T.M., and H.S. PETERS. 1942. Some recent bird records from Canada's eastern Arctic. Canadian Journal of Research, 20:338-348.

A list with notes on numbers, dates of occurrence, habits, and distribution of eighty-two species observed by the authors. [A.D. Revill Associates 1975]

Fauna

SIEBER, P. 1978. Parks north of 60 degrees. Arctic Circular, 26:71-88.

Describes the Nahanni, Kluane, and Auyuittuq National Parks and the six wilderness areas which Parks Canada intends to set aside for future national parks in the Yukon and Northwest Territories.

General, Auyuittuq

SIEBER, P. 1980. Auyuittuq: the land that never melts / Auyuittuq: le pays des glaces eternelles. Conservation Canada, 5:1-9.

A brief description of the park, its environment, and facilities.

Popular, general, Auyuittuq

SIEBER, P. 1981. Auyuittuq, on the Cumberland Peninsula of Baffin Island, a perfect proving ground. Nature Canada, 10:35-40.

A general description of the park, its environment, facilities, and related activities.

Popular, general, Auyuittuq

SIMMONS, N., G.W. SCOTTER, and W.F. CHEFFINS. 1975. Frontier national parks - three above 60. North, 22(3):2-9.

Includes a description of Auyuittuq National Park. Includes very brief notes on its attractions, flora, climate, and fauna.

Popular, general, Auyuittuq

SMIRLE, S.M., and J.D. BRADFORD. 1970. Bibliography on northern sea ice and related subjects. Marine Operations, Ministry of Transport and Marine Science Branch, Department of Energy, Mines and Resources, Ottawa, Ontario. 183 pp.

More recent version by Bradford and Moline (1980).

Sea ice, climatology

SMITH, N.G. 1966. Evolution of some arctic gulls (Larus) an experimental study of isolating mechanisms. Ornithological Monographs Number 4. 99 pp.

Data on comparative morphology, behaviour, physiology, ecology, and functional anatomy of arctic gulls is correlated to clarify their relationships and phylogeny. Deals with gull species found in the Home Bay area.

Fauna, marine environment

SMITH, T.G. 1973a. Censusing and estimating the size of ringed seal populations. Fisheries Research Board of Canada, Arctic Biological Station, Technical Report 427. Ste. Anne de Bellevue, Quebec. 18 pp.

Outlines and evaluates methods used in aerial censusing of ringed seals.

Fauna, marine environment

SMITH, T.G. 1973b. Management research on the Eskimo's ringed seals. Canadian Geographical Journal, 84:118-125.

The seasonal ringed seal hunt in the Canadian Arctic is described. Types of hunting, peak catches, regional harvest and the need for a management programme are discussed. Emphasis is on the structure of ringed seal populations to determine estimates of different local populations and their ability to withstand an annual harvest.

Fauna, marine environment, resource harvest

SMITH, T.G. 1973c. Population dynamics of the ringed seal in the Canadian eastern Arctic. Fisheries Research Board of Canada Bulletin, 181. 55 pp.

Seals were aged and reproductive tracts examined during a study on population dynamics of the ringed seal in Home Bay and Cumberland Sound. Information on size, abundance, reproduction, vital statistics of the population, and sustainable yield is included.

Fauna, marine environment, resource harvest

SMITH, T.G. 1975. Parameters and dynamics of ringed seal populations in the Canadian eastern Arctic. Rapports et Proces-verbaux du Reunion du Conseil International de la Mer, 169:281-295.

Two ringed seal hunting areas, Home Bay and Cumberland Sound, were studied between 1966 and 1970. Population statistics and dynamics of the two exploited populations are examined and compared to an unhunted area, Hoare Bay.

Fauna, marine environment, resource harvest

SMITH, T.G. 1976. The icy birth place of the ringed seal. Canadian Geographical Journal, 93:58-63.

Describes adaptations for life in the arctic seas. Includes information on lairs, predators, and hunting in the Beaufort Sea area.

Fauna, marine environment, resource harvest

SMITH, T.G. 1981. Notes on the bearded seal, Erignathus barbatus, in the Canadian Arctic. Canadian Technical Report of Fisheries and Aquatic Sciences 1042. 49 pp.

Data are summarized on bearded seals collected from several Canadian Arctic locations, including Cumberland Sound, since 1955. Distribution, abundance, growth, reproduction and feeding habits are discussed.

Fauna, marine environment

SMITH, T.G., and M.O. HAMMILL. 1980. A survey of the breeding habitat of ringed seals and a study of their behaviour during the spring haul-out period in southeastern Baffin Island. Addendum to the final report to the Eastern Arctic Marine Environmental Studies (EAMES) project. Canadian Manuscript Report of Fisheries and Aquatic Sciences Number 1561. 47 pp.

Presents an assessment of the fast ice breeding habitat of the ringed seal in southeastern Baffin Island between Loks Land and Brevoort Island (March-April 1979). Includes a study of behavioural observations (April-June 1979).

Fauna, marine environment, sea ice

SMITH, T.G., M.H. HAMMILL, D.W. DOIGE, T. CARTIER, and G.A. SLENO. 1979. Marine mammal studies in southeastern Baffin Island. Final report to the Eastern Arctic Marine Environmental Studies (EAMES) project. Canadian Manuscript Report of Fisheries and Aquatic Sciences Number 1552. 70 pp.

Although dealing with an area outside the park, this report contains useful information on typical marine mammals found in or near the park. A primary goal of the study was to assess the possible impacts of offshore oil well drilling on marine mammal populations. Discusses areas where knowledge of marine mammals is lacking.

Fauna, marine environment, environmental impact

SMITH, T.G., and D. TAYLOR. 1977. Notes on marine mammal, fox, and polar bear harvests in the Northwest Territories, 1940 to 1972. Fisheries and Marine Service Technical Report Number 694. Ottawa, Ontario. 37 pp.

Marine mammal, fox and polar bear catch statistics are summarized from RCMP game reports from 1961 to 1972 and from Hudson Bay Company records. Recommendations are made to improve regular reporting and analyses of annual harvests.

Fauna, resource harvest, marine environment

SOPER, J.D. 1928. A faunal investigation of southern Baffin Island. National Museum of Canada Bulletin 53, Biological Series Number 15. Kings 's Printer, Ottawa, Ontario. 143 pp.

Summarizes the known facts (in 1923) about the fauna of Baffin Island. Included is information from Soper's earlier expeditions.

Fauna

SOPER, J.D. 1930. Explorations in Baffin Island. Geographical Journal, 75:435-443.

Describes a crossing of Baffin Island from Pangnirtung to Foxe Basin in January and February, 1926. Author comments on the geographical and geological features of the land. [A.D. Revill Associates 1975]

General, geology

SOPER, J.D. 1934. Interesting bird records for southern Baffin Island. Canadian Field-Naturalist, 48:41-44, 65-68, 79-82.

Refers to 16 species, newly added to the Baffin Island list and discusses distribution, breeding habits, and rare material collected. [Arctic Institute of North America 1953]

Fauna

SOPER, J.D. 1940. Local distribution of eastern Canadian Arctic birds. Auk, 57:13-21.

General information on the distribution and abundance of birds in the eastern Arctic - especially western Baffin Island.

Fauna, flora

SOPER, J.D. 1944. The mammals of southern Baffin Island, Northwest Territories, Canada. Journal of Mammalogy, 25:221-254.

Contains an annotated list, with Inuit names, of 28 terrestrial and marine mammals. Includes information on the abundance, distribution, habitat, and natural history of mammals of southern Baffin Island in the 1920's.

Fauna, flora, geology

SOPER, J.D. 1946. Ornithological results of the Baffin Island expeditions of 1928-1929 and 1930-1931, together with more recent records. Auk, 63:1-24, 223-239, 418-427.

One of the earlier ornithological studies on Baffin Island. Contains a useful review of the works of naturalist-explorers and an annotated list, with Inuit names, of 66 species of birds.

Fauna

SOPER, J.D. 1973. The conquest of Pangnirtung Pass. Beaver, Outfit 303 (Spring):40-48.

An account of an expedition in the winter of 1924-1925 through the Pangnirtung Pass. Describes the terrain from the South Pangnirtung Fiord along the Weasel and Owl Rivers to North Pangnirtung Fiord.

Popular, general, Auyuittuq

SOPER, J.D. 1981. Canadian arctic recollections: Baffin Island 1923-1931. Institute for Northern Studies, University of Saskatchewan, Mawdsley Memoir 4. Saskatoon, Saskatchewan. 141 pp.

Recollections of Soper's travels on Baffin Island (mainly southern) from comments in his day journals.

General

SPINK, J. 1969. Eskimo maps from the Canadian eastern Arctic. M.A. thesis, University of Manitoba, Winnipeg, Manitoba.

Presents an analysis of maps drawn by Inuit for the Canadian eastern Arctic. All examples of maps are historical documents from two periods: the 19th century British Admiralty searches for Sir John Franklin and the Thule anthropological expeditions of the 1920's and 1930's.

General, human history

SPINK, J., and D.W. MOODIE. 1972. Eskimo maps from the Canadian eastern Arctic. Cartographica, Monograph Number 5. University of Toronto Press, Toronto, Ontario. 98 pp.

Presents an analysis of maps drawn by Inuit for the Canadian eastern Arctic. All examples of maps are historical documents from two periods: the 19th century British Admiralty searches for Sir John Franklin and the Thule anthropological expeditions of the 1920's and 1930's.

General, human history

STIRLING, I., W. CALVERT, and D. ANDRIASHEK. 1980. Population ecology studies of the polar bear in the area of southeastern Baffin Island. Canadian Wildlife Service Occasional Paper Number 44. 33 pp.

Baseline studies of polar bear on southeastern Baffin Island. Areas of discussion include: population, mortality, distribution, reproduction, land use.

Fauna, marine environment, environmental impact

STIRLING, I., and H. CLEATOR (Editors). 1981. Polynyas in the Canadian Arctic. Canadian Wildlife Service Occasional Paper Number 45. 73 pp.

A useful reference on the causes, distribution, and biological significance of polynyas (openings of water in the sea ice) in the Canadian Arctic.

Marine environment, sea ice, fauna

STIRLING, I., H.P.L. KILIAAN, W. CALVERT, D. ANDRIASHEK. 1979. Population ecology studies of polar bears in the area of southeastern and southern Baffin Island and northern Labrador. Progress Report to the Canadian Wildlife Service, Esso Resources Canada Limited, Aquitaine Company of Canada Limited, Canada Cities Services Limited, and the Northwest Territories Wildlife Service. 88 pp.

Analyzes and discusses baseline data available to date for assessment and management purposes and to clarify what research still needs to be done. Includes a summary of the current state of knowledge, a description of the study area (physiography, climate, vegetation, ice, currents, biological life), and information on distribution and movements, maternity denning areas, litter size and productivity, age structure and mortality rates, an estimate of the population size, and implications of offshore drilling.

Fauna, marine environment, environmental impact

STOCK, R.J. 1968. Morphology and development of talus slopes at Ekalugad Fiord, Baffin Island, N.W.T. B.A. thesis, University of Western Ontario, London, Ontario.

Geology

STRZELCZYK, E., J.W. ROUATT, and E.A. PETERSON. 1969. Studies on actinomycetes from soils of Baffin Island. Arctic, 22:130-139.

Presents a summary of data on the abundance, physiological activity and anti-microbial properties of Actinomycetes collected from acidic Baffin Island soils. Investigations of samples, including soils from Cape Dyer on Cumberland Peninsula, reveal a relative paucity of actinomycetes, and failed to indicate a predominant group.

Soils, flora

STUCKENRATH, R., G.H. MILLER, and J.T. ANDREWS. 1979. Problems of radiocarbon dating Holocene organic-bearing sediments, Cumberland Peninsula, Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 11:109-120.

Samples were collected from beneath and within the "layered sands" of Pangnirtung Pass and the Padle/Kingnait Pass. Results are reported of 28 individual age determinations, stratified according to (1) different laboratory preparations, (2) different size fractions of the organic materials, and (3) different NaOH solubility fractions. [Andrews and Andrews 1980]

Geology, soils, Auyuittuq

SUGDEN, D.E., and B.S. JOHN. 1976. Glaciers and landscape: a geomorphological approach. Edward Arnold (Publishers) Limited, London, England. 376 pp.

A study of glacial processes and forms. Synthesizes recent research and provides modifications to accepted theories. Topics include: glaciers and glacier dynamics, glacier distribution in space and time, glacial erosion and deposition and its effects, and meltwater - a glacial subsystem.

Geology

SUGDEN, D.E., and S.H. WATTS. 1977. Tors, felsenmeer, and glaciation in northern Cumberland Peninsula, Baffin Island. Canadian Journal of Earth Science, 14:2817-2823.

Tors and felsenmeer were examined on Broughton Island and on the upland between Coronation and Maktak fiords. The authors suggest that areas with tors and felsenmeer have survived beneath the Laurentide ice sheet and have not necessarily escaped glaciation.

Geology, Auyuittuq

TATTERSALL, W.M. 1939. The Mysidacea of eastern Canadian waters. Journal of the Fisheries Research Board of Canada, 4:281-286.

Fauna, marine environment

TEDROW, J.C.F. 1973. Soils of the polar region of North America. Biuletyn Peryglacjalny, 23:157-165.

Component soil types from three zones of the polar region of North America are described according to their significant features and distribution.

Soils

TEDROW, J.C.F. 1977. Soils of the polar landscapes. Rutgers University Press, New Brunswick, New Jersey. 638 pp.

Renewable Resources Library
Government of the NWT
P.O. Box 1320
Yellowknife, NT
X1A 2L9

Contains a comprehensive description of polar soils in both the Arctic and Antarctic. Soil systems, cryogenic processes, and the results of various interactions in the cold regions are treated on a circumpolar basis. Deals primarily with polar pedology and polar soil geography. Regional discussions contain descriptions of the relevant features of polar geology and glaciology, climate, and vegetation.

Soils, geology, climatology, flora

TENER, J.S. 1961. Baffin Island caribou survey, 1961. Unpublished manuscript report, Canadian Wildlife Service, Department of Indian and Northern Affairs, Ottawa, Ontario. CWS 64-61. 2 pp.

Reports on observations from a two-day survey of wintering concentrations of caribou in the Nettilling Lake region. Compares present migrations routes to those observed in 1960. Includes information on total annual harvests.

Fauna, resource harvest

TENER, J.S., and V.E.F. SOLMAN. 1960. Aerial survey of Baffin Island caribou, March 16-22, 1960. Unpublished manuscript report, Canadian Wildlife Service, Department of Indian and Northern Affairs, Ottawa, Ontario. CWSC 828. 9 pp.

Presents results of aerial surveys flown over southern Baffin Island in March 1960 in order to determine the trend in caribou population since 1954. Includes information on abundance, distribution, annual harvest.

Fauna, resource harvest

TERASMAE, J. 1974a. Preliminary report: palynology research, Baffin Island National Park. Report to Parks Canada, Quebec Region, Contract 74-106. 6 pp. + 19 pp. of appendices.

Geology, flora, Auyuittuq

TERASMAE, J. 1974b. A palynology study (evaluation of the technique with regard to the Arctic milieu) of Baffin Island National Park.

Geology, flora, Auyuittuq

TERASMAE, J. 1975. A study and evaluation of palynological methods for an interpretation of the arctic milieu and history of vegetation in the Baffin Island National Park and the surrounding area. Report to Applied Research Division, Parks Canada, Department of Indian and Northern Affairs, Project 78/7-S2.8, Contract 74-146. 101 pp. + appendices.

Summary of background data on physiography, climate, geology, soils, and flora.

Flora, climatology, soils, geology, Auyuittuq

TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1985. Proposal for ecosection mapping for Auyuittuq National Park Reserve. Prepared for Northwest Territories Department of Renewable Resources. 18 pp. + appendices.

A proposal to carry out ecological land classification in Auyuittuq.

Geology, soils, flora, Auyuittuq

THOMPSON, H.R. 1953. Baffin Island Expedition 1953 of the Arctic Institute of North America: transcribed field notes of H.R. Thompson. Unpublished manuscript. 173 pp.

An exploratory account of the regional geomorphology of Pangnirtung Pass. Contains comprehensive and detailed, but primarily descriptive, notes on geologic and geomorphic phenomena at the head of Pangnirtung Fiord, in the Weasel River Valley, and around Pangnirtung Pass. Also includes slope and elevation determinations, bathymetric soundings, tidal height records, air and ice temperature measurements, and vegetation descriptions. [Andrews and Andrews 1980]

General, geology, marine environment, climatology, flora, Auyuittuq

THOMPSON, H.R. 1954a. Glaciers and land forms in the Cumberland Peninsula on Baffin Island. Eastern Snow Conference 1954 Proceedings, 2:29-34.

A summary of geological and geomorphological work of the Baffin Island Expedition, 1953.

Geology, Auyuittuq

THOMPSON, H.R. 1954b. Pangnirtung Pass, Baffin Island: an exploratory regional geomorphology. Ph.D. thesis, McGill University, Montreal, Quebec. 227 pp.

A detailed description of the landforms of Pangnirtung Pass with additional work on sounding in North Pangnirtung and Pangnirtung Fiords. Good source for detailed landform maps and the maps and photographs of glacier snouts and ice-cored deposits provide the foundation for future study on glacier movement and the melting and formation of ice-cored features. [Andrews and Dyke 1974]

Geology, Auyuittuq

THOMPSON, H.R. 1955. A landslide moraine in Baffin Island. Canadian Geographer, 6:13-16.

Description of a feature observed in Pangnirtung Pass during the 1953 Baffin Island Expedition of the Arctic Institute of North America. A wedge-shaped area of debris extended from a cirque downward to Owl River at the axis of the Pass. Its morphology is described. Two hypotheses for its origin are set forth. [Andrews and Andrews 1980]

Geology, Auyuittuq

THOMPSON, H.R. 1957. The old moraines of Pangnirtung Pass, Baffin Island. Journal of Glaciology, 3:42-49.

Results of observations made during the 1953 Baffin Island Expedition of the Arctic Institute of North America. Most convincing signs of past glaciation in Pangnirtung Pass are the so-called "old moraines." Various hypotheses as to their origin are considered. [Andrews and Andrews 1980]

Geology, Auyuittuq

THOMPSON, H.R., and B.H. BONNLANDER. 1956. Temperature measurements at a cirque bergschrund in Baffin Island: some results of W.R.B. Battle's work in 1953. Journal of Glaciology, 2:762-769.

Reports temperature measurements taken at Glacier 32 in Pangnirtung Pass (near the Turner Glacier) and shows that there are few temperature oscillations in a bergschrund, thus refuting theories on the role of freeze-thaw cycles in cirque formation. [Andrews and Dyke 1974]

Geology, freshwater, Auyuittuq

THOMSON, J.W. 1984. American arctic lichens. I. The macrolichens. Columbia University Press, New York, New York. 594 pp.

A key to the arctic lichens. Includes illustrations and range maps.

Flora

USHER, P.J., D. DELANCEY, G. WENZEL, M. SMITH, and P. WHITE. 1985. An evaluation of native harvest survey methodologies in northern Canada. Environmental Studies Revolving Funds Report Number 004. 249 pp.

In-depth evaluation of various native harvest studies conducted in the Northwest Territories with references to northern Quebec.

Fauna, resource harvest

VAN ZYLL DE JONG, C.G. 1975. The distribution and abundance of the wolverine (Gulo gulo) in Canada. Canadian Field-Naturalist, 89:431-437.

Reviews the wolverine's current status in Canada and speculates on the possible factors underlying observed changes. Uses information drawn from fur production statistics, provincial wildlife management agencies and the literature.

Fauna, resource harvest

VLADIMIROV, O.A. 1964. Ledovitost' Devisova proliva. / Ice conditions in Davis Strait. Trudy, Moskva. Gos. okeanograficheskii inst. number 71:100-119.

Presents preliminary results from the investigation of ice changes in Davis Strait by analyzing observations for the Danish Meteorological Institute. Probability of encountering sea ice is charted for Davis Strait and Baffin Bay, as is that of encountering icebergs. Seasonal changes of areas with ice are analyzed, and related to hydrometeorological characteristics in more southerly regions in the Atlantic. Periodic fluctuations of ice in Davis Strait are also discussed. [Arctic Institute of North America 1969]

Sea ice

WARD, W.H. 1955a. Studies in glacier physics on the Penny Ice Cap, Baffin Island, 1953. Part II: Portable ice-boring equipment. Journal of Glaciology, 2:433-436.

Construction and use of ice-boring equipment taken on the 1953 Baffin Island Expedition of the Arctic Institute of North America are described in some detail. [Andrews and Andrews 1980]

Geology, Auyuittuq

WARD, W.H. 1955b. Studies in glacier physics on the Penny Ice Cap, Baffin Island. Part IV: The flow of Highway Glacier. Journal of Glaciology, 2:592-598.

The horizontal and vertical motions of eight points on the surface of Highway Glacier, Baffin Island, are reported. [Andrews and Andrews 1980]

Geology, Auyuittuq

WARD, W.H., and P.D. BAIRD. 1954. Studies in glacier physics on the Penny Ice Cap, Baffin Island. Part I: A description of the Penny Ice Cap, its accumulation and ablation. Journal of Glaciology, 2:342-355.

A brief outline and chronology of the glaciological program is presented. [Andrews and Andrews 1980]

Geology, Auyuittuq

WATSON, A. 1956. Ecological notes on the lemmings _Lemmus trimucronatus_ and _Dicrostonyx groenlandicus_ in Baffin Island. Journal of Animal Ecology, 25:289-302.

On the general biology of _Lemmus_ and _Dicrostonyx_ on Cumberland Peninsula.

Fauna, flora, Auyuittuq

WATSON, A. 1957a. Birds in Cumberland Peninsula, Baffin Island. Canadian Field-Naturalist, 71:87-109.

Observations of the birds of Cumberland Peninsula, made in 1953.

Fauna, flora, Auyuittuq

WATSON, A. 1957b. The behaviour, breeding and food-ecology of the snowy owl *Nyctea scandiaca*. Ibis, 99:419-462.

Concerns Watson's study of snowy owls made in 1953.

Fauna, Auyuittuq

WATSON, A. 1962. Observation on some mammals in Cumberland Peninsula, Baffin Island, in 1953. Canadian Field-Naturalist, 76:56-60.

Notes on the mammals of Cumberland Peninsula are presented.

Fauna, Auyuittuq

WATSON, A. 1963. Bird numbers on tundra in Baffin Island. Arctic, 16:101-108.

Abundance of birds in the Owl River Valley is reported and reproductive success of various species is assessed.

Fauna, Auyuittuq

WATSON, A. 1986. Notes on the sexual cycle of some Baffin Island birds. Canadian Field-Naturalist, 100:396-397.

Changes in gonad size throughout the breeding season are reported.

Fauna, Auyuittuq

WATTS, S.H. 197?. Rock weathering features of the Cumberland Peninsula, Baffin Island: observations and implications. Unpublished report, Geology Department, Brandon University, Brandon, Manitoba. 22 pp.

Modern and remnant rock-weathering features are described and the processes influencing the formation of soil features are discussed.

Geology, soils, Auyuittuq

WATTS, S.H. 1979. Some observations on rock weathering, Cumberland Peninsula, Baffin Island. Canadian Journal of Earth Science, 16:977-983.

Modern and remnant rock-weathering features are described and the processes influencing the formation of soil features are discussed.

Geology, soils, Auyuittuq

WEAVER, J.D., and J.W. GRIER. 1970. 1970 peregrine falcon survey on southern Baffin Island. Canadian Field-Naturalist, 84:242-243.

Presents results from a survey by boat covering 1200 miles along southern Baffin Island.

Fauna

WEAVER, R.L. 1975. "Boas" Glacier, Baffin Island, N.W.T., Canada: mass balance for the five budget years, 1969 to 1974. Arctic and Alpine Research, 7:279-284.

Geology, freshwater, climatology

WEAVER, R.L. 1976. Aspects of the radiation budget related to fast ice decay, Broughton Island, Baffin Island, N.W.T. M.Sc. thesis, University of Colorado, Boulder, Colorado. 158 pp.

Climatology, sea ice

WEAVER, R.L., R.G. BARRY, and J.D. JACOBS. 1976. Fast ice studies in western Davis Strait. In Proceedings of the Third International Conference on Port and Ocean Engineering Under Arctic Conditions, 3:455-466.

Concentrates on the region from Home Bay to Padloping Island, with field studies since 1971 of various aspects of the surface energy budget on the fast ice area of Broughton Island during both growth and decay phases of the annual ice cycle. Focuses on relationships between synoptic weather events, observed changes in the surface energy budget and ice response.

Sea ice

WEBB, R. 1976a. Sea mammal surveys in Baffin Bay and Davis Strait, September 1976. Unpublished report by R. Webb Environmental Services Limited, Richmond, British Columbia for Shell Canada Resources Limited, Calgary, Alberta. 34 pp.

Presents results of aerial surveys conducted to determine the presence or absence of whales and seals in and near two offshore seismic areas. Narwhal and seal distribution and movement patterns were also observed.

Fauna, marine environment

WEBB, R. 1976b. Status of sea mammals in Baffin Bay and Davis Strait: a preliminary review of published literature, July 1976. Unpublished report prepared by R. Webb Environmental Services Limited, Richmond, British Columbia for Shell Canada Resources Limited, Calgary, Alberta.

A review of published scientific literature on sea mammals of Baffin Bay and Davis Strait.

Fauna, marine environment

WEBER, J.R. 1967. A gravimetric determination of the vertical ice movement of the Penny Ice Cap, Baffin Island. International Union of Geodesy and Geophysics General Assembly, Switzerland, September 25 - October 5, 1967. Abstracts of papers VI(XIV):71.

Geology, Auyuittuq

WEBER, J.R., and P. ANDRIEUX. 1970. Radar soundings on the Penny Ice Cap, Baffin Island. Journal of Glaciology, 9:49-54.

Illustrates a profile across the Penny Ice Cap showing the sub-ice topography--depths of up to 550 m were recorded. [Andrews and Dyke 1974]

Geology, Auyuittuq

WEEKS, L.J. 1928. Cumberland Sound area, Baffin Island. In Summary Report, 1927, Part C. Geological Survey of Canada, Ottawa, Ontario. pp. 83-95.

Contains results of a geographic and geological survey of the west end of the Sound from Kekerten to Nettilling Fiord and Lake, with notes on the natural conditions, physical features, glaciation, coastal fluctuations, general geology, and brief mention of mineral deposits. [Arctic Institute of North America 1953]

Geology, marine environment

WELCH, D.M. 1984. Auyuittuq National Park Reserve - park data plan. Natural Resources Division, National Parks Branch, Parks Canada, Ottawa, Ontario. 63 pp. + 2 appendices.

Existing data on the natural resources of Auyuittuq are summarized and future information requirements and resource management concerns are identified. This document provides essential background information for the Basic Resource Inventory and Resource Description and Analysis of Auyuittuq.

General, geology, climatology, fauna, flora, soils, freshwater, Auyuittuq

WELCH, D.M. 1985. Verification of ecological land classification data, Pangnirtung Pass, Baffin Island, Canada. Typewritten report, Natural Resources Division, Parks Canada, Ottawa, Ontario. 15 pp.

Examines the accuracy of 4 summary variables (relief class, geomorphic type, landform, vegetation cover) for a block of 43 ecosections at the south end of Pangnirtung Pass.

Geology, soils, flora, Auyuittuq

WELCH, D.M., and J. CHURCHILL. 1986. Hiking trail conditions in Pangnirtung Pass, 1984, Baffin Island, Canada. Parks Canada. 19 pp.

The effects of hikers on terrain and vegetation are quantified and management implications discussed.

Environmental impact, flora, geology, Auyuittuq

WILLIAMS, L.D. 1972. Some factors influencing cirque glacierization on eastern Cumberland Peninsula, Baffin Island, Canada. M.Sc. thesis, University of Colorado, Boulder, Colorado. 137 pp.

A statistical and mathematical treatment of cirques in two areas, involving an attempt to determine the various climatic controls on glacierization. [A.D. Revill Associates 1975]

Geology, climatology, Auyuittuq

WILLIAMS, L.D. 1975. The variation of corrie elevation and equilibrium line altitude with aspect in eastern Baffin Island, N.W.T., Canada. Arctic and Alpine Research, 7:169-182.

A model for computing heat and water balances on glaciers from climatic data is designed, tested, and used to estimate the equilibrium line altitude as a function of aspect in the Okoa Bay area of Baffin Island, using 1963 to 1972 data. [Masterton and FIndlay 1976]

Geology, climatology, Auyuittuq

WILLIAMS, L.D., R.G. BARRY, and J.T. ANDREWS. 1972. Application of computed global radiation for areas of high relief. Journal of Applied Meteorology, 11:526-533.

Computations for an area of east Baffin Island demonstrate that the occurrence of glaciers is influenced by elevation and solar radiation. The computer program used for the computations is described and the potential of such computations as an aid in selecting sites for climatological studies is discussed.

Climatology, Auyuittuq

WILSON, J.T., and D.B. CLARKE. 1965. Geological expedition to Capes Dyer and Searle, Baffin Island, Canada. Nature, 205:344-350.

Summarizes findings of a two-month field trip in 1964 by a three-man party, along the east coast at Cape Dyer and from Broughton Island to Cape Searle. [Andrews and Andrews 1980]

Popular, general, Auyuittuq

WILSON, R. (Editor). 1976. The land that never melts: Auyuittuq National Park. Peter Martin Associates Limited in association with Parks Canada and Publishing Centre, Supply and Services Canada, Ottawa, Ontario. 212 pp.

Describes the historical and ongoing relationships of land, climate, people, and wildlife. Chapters on: shaping of a land - geology, climate and ice age history; history of human occupation; the living landscape; aids to the park visitor. Contains useful illustrations of landforms, birds, and flowering plants.

General, geology, climatology, human history, flora, fauna, Auyuittuq

WILSON, R. (Editor). 1977. Au pays des glaces eternelles, Ile de Baffin, Parc National Auyuittuq. Affaires Indiennes et du Nord, Parcs Canada. Publie avec le concours de 'Editions L'Etincelle' et du Centre d'edition, Approvisionnements et Services Canada. 222 pp.

(French version of the book listed above)

General, geology, climatology, human history, flora, fauna, Auyuittuq

WOOD, T.J. 1974. Wildlife in the vicinity of Baffin Island National Park: an assessment of the impact of Inuit hunting and other factors on wildlife populations in southeastern Baffin Island. Unpublished report, Canadian Wildlife Service, Fredericton, New Brunswick. 35 pp. + appendices.

A general assessment of Inuit hunting on wildlife in the area of Auyuittuq National Park Reserve. Includes discussions on native history, common marine and terrestrial animals, endangered species, and harvest statistics.

Fauna, resource harvest, Auyuittuq

WOODWARD-CLYDE CONSULTANTS. 1981. Regional analysis: study of natural region #26. Final report prepared for Parks Canada, Hull, Quebec. 85 pp.

An analysis of the northern Davis Strait region was conducted in order to identify areas that satisfy 'Natural Areas of Canadian Significance' criteria. Includes descriptions of geology (and tectonic landforms), physiography (and regional landforms), fluvial landforms, glacial landforms, coastal environments, lakes, rivers, freshwater fish, mammals, wetlands, vegetation, and birds.

General, geology, marine environment, freshwater, fauna, flora

WYNNE-EDWARDS, V.C. 1952a. Zoology of the Baird Expedition (1950) I. The birds observed in central and south-east Baffin Island. Auk, 69:353-391.

Contains observations of birds made near Cape Searle, about 60 km east of Auyuittuq.

Fauna

WYNNE-EDWARDS, V.C. 1952b. The fulmars of Cape Searle. Arctic, 5:105-117.

Narrative of a visit to Cape Searle in 1950. Presents a summary of existing literature and past research on the fulmars of Cape Searle and a description of the geographical races and distribution of the fulmar. Includes notes on weather, other mammal sightings, and flora.

Fauna, popular, general

YORKE, B.J. 1972. Climatic inventory of Baffin Island National Park. Preliminary report (phase 1), November 1972. Applied Research Division, Parks Canada, Department of Indian and Northern Affairs, Ottawa, Ontario. 66 pp.

The author has compiled climatic data for the weather stations in and around the park. General summaries are provided for Broughton Island, Cape Dyer A, Cape Hooper, Dewar Lakes, Ekalugad Fiord, Qivitoo, Padloping Island, and Pangnirtung. Detailed summaries are provided for Broughton Island, Cape Hooper, Dewar Lakes, and Pangnirtung. [A.D. Revill Associates 1975]

Climatology, Auyuittuq

ZOLTAI, S.C., K.J. MCCORMICK, and G.W. SCOTTER. 1983. A natural resource survey of Bylot Island and adjacent Baffin Island, Northwest Territories. Report prepared for Parks Canada, Ottawa, Ontario. 176 pp. + maps.

Describes the geology, geography, flora, fauna, and human history of Bylot Island and adjacent Baffin Island.

Geology, soils, climatology, flora, fauna, human history, environmental impact

APPENDIX. Accessing the bibliography with WORDPERFECT.

References on selected topics can be listed by single or multiple keywords. The following is an example of the steps taken in order to obtain a list of all references concerning the fauna of Auyuittuq. In this example, WORDPERFECT has been installed on the hard disk and the bibliography (named 'BIBLIO.AUY') is stored on a floppy disk in drive A.

TASK	KEYSTROKES	RESULTING SCREEN DISPLAY
Start WORDPERFECT	After C> prompt, Type WP Press RETURN	You should be in a blank document.
Choose 'Merge/Sort'	Press CTRL-F9	1 Merge; 2 Sort; 3 Sorting Sequences: 0
Choose 'Sort'	Press 2	Input file to sort: (Screen)
Choose bibliography from disk as input file	Type A:\BIBLIO.AUY Press RETURN	Output file for sort: (Screen)
Choose screen for output file	Press RETURN	1 Perform action; 2 View; 3 Keys; 4 Select; 5 Action; 6 Order; 7 Type: 0
Define type of sort	Press 7	Sorting type: 1 Merge; 2 Line; 3 Paragraph: 0
Choose paragraph sort	Press 3	1 Perform action; 2 View; 3 Keys; 4 Select; 5 Action; 6 Order; 7 Type: 0
Define selection criteria	Press 4 Type keyg=fauna Press F7	1 Perform action; 2 View; 3 Keys; 4 Select; 5 Action; 6 Order; 7 Type: 0

When defining the selection criteria, the format is Key[n] [operator][condition] [+ or *] Key[n]etc... To perform a global search, 'g' is used for the key number [n]. In this case, all paragraphs which contain the word fauna will be retrieved from the 'BIBLIO.AUY' file. It is possible to define the selection criteria in order to select for a number of conditions. To select all references related to marine geology, type 'keyg=marine environment * keyg=geology' instead of 'keyg=fauna' as above. When defining the selection criteria, the operators are listed at the bottom of the screen.

TASK	KEYSTROKES	RESULTING SCREEN DISPLAY
Choose action required	Press 5	Action: 1 Select and Sort; 2 Select Only: 0
Choose 'Select Only'	Press 2	1 Perform action; 2 View; 3 Keys; 4 Select; 5 Action; 6 Order; 7 Type: 0
Perform action	Press 1	You should now have a document containing all references related to the selection criteria. The document can now be printed or saved as a separate file.

If you make a mistake and wish to stop what you are doing and start over, press F1. A blank document should reappear. It may be necessary to press F1 twice.

If you require help, press F3.